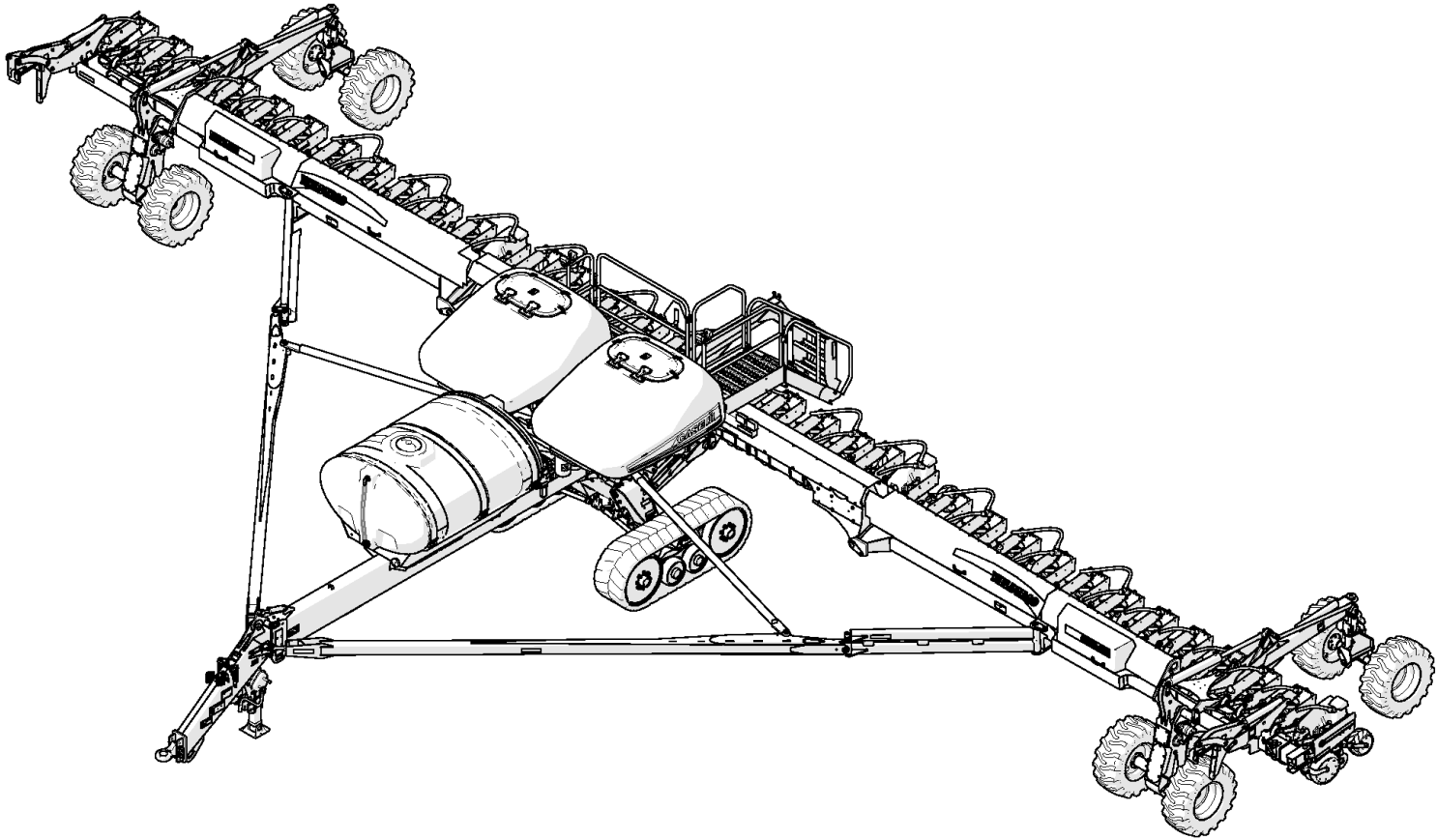


YIELDTRAC



Yieldtrac Planter Bar 16R-30

16 Row 30" Spacing (2000 Series)
Front Fold Trailing Planter

Year 2018 Model

Parts Catalog

Part number T0056295
1st edition English
July 2019

 **NORWOOD**
Sales Inc.

Disclaimer

This document is based on information available at the time of its publication. While efforts have been made to be accurate, the information contained herein does not purport to cover all details or variations, nor to provide for every possible contingency in connection with installation, operation, or maintenance. Features may be described herein which are not present in all systems. Norwood Sales Inc. assumes no obligation of notice to holders of this document with respect to changes subsequently made.

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Read and Understand

WARNING

Read and follow all instructions and safety precautions in this catalog and all other manuals for products associated with this planter as well as in all on-product warning decals. Failure to do so could result in death or serious injury, or property damage. Contact your Norwood Yieldtrac Planter dealer if any of your manuals are missing or illegible or you have questions.

Preface

This parts catalog is intended for use with the Norwood Sales Inc. Yieldtrac Planter 16R-30.

Revision History

Issue	Date	Reasons for Change
T0056295	July 25th, 2019	Release

HOW TO USE THIS CATALOG AND LOCATE PARTS

This catalog is organized from a larger assembly, down to a smaller assembly. The exploded parts illustration will be shown on the left page, and the parts listing will be on the right page throughout this catalog.

Option 1:

From the contents page of the parts catalog, select the category which would most logically contain the part to be found. If you are viewing this document electronically, then click on the hyperlink of the page number you wish to navigate to, and the hyperlink will take you to that page.

Option 2:

If the part number is known but the applications and/or locations need to be determined, refer to the numerical index at the back of this catalog. The index shows the **Part Number, Description, and Page Number(s)** that the item or items are contained on. If you are viewing this document electronically, then click on the hyperlink of the page number you wish to navigate to in the table of contents, Index, or Bill of Materials of an exploded assembly, and the hyperlink will take you to that page.

Additionally, to determine that you are on the correct page in the parts catalog, use the following symbols:

16R-30

These symbols designate the different models of planters, and will appear at the top left corner of the parts catalog page. Choose the pages that correspond with your model of planter.

Exploded Parts Illustration.

Designates Parts Catalog Page For Yieldtrac 36R22 Model Only.

Foward Direction Of Travel Symbol

36R-22 Parts Catalog

Determining Orientation:

Front, Back, Left, and Right are determined by the operator sitting in the tractor seat facing the forward direction of travel.

The symbols shown below, will be on certain pages in this Parts Catalog, and where indicated, determine the front of the machine.



PARTS ORDERING INFORMATION

If you need service or parts for your machine:

For service assistance or parts, contact your nearest authorized Norwood Sales Inc. dealer. Your nearest authorized Norwood Sales Inc. dealer will need to know the model number, and your serial number of your machine to provide the most efficient service. See the following page for information on how to identify and record the model number, and serial number of your machine.

REPLACEMENT PARTS

Only genuine Norwood Sales Inc., and Case IH replacement parts should be used to service or repair the machine. Norwood Sales Inc. replacement parts are available from your Norwood Sales Inc. Dealer. To obtain prompt, efficient service, remember to give the Dealer the correct part number, description and quantity.

When ordering parts for your machine, please provide the following:

1. The PART NUMBER of the part.
3. The PART DESCRIPTION.
4. The QUANTITY needed.

Model Number / Serial Number Location

Always give your authorized Norwood dealer the model number and serial number of your Yieldtrac Planter 16R-30 product when ordering parts, requesting service, or any other information to provide the most efficient service.

The model number / serial number is identified in (Fig. # 1-1) below.

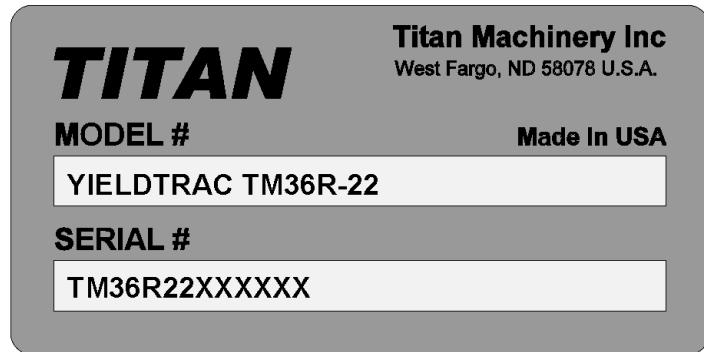


Fig. # 1-1 Model Number / Serial Number Decal

The model number / serial number is located where indicated below. (See Fig. # 1-2)

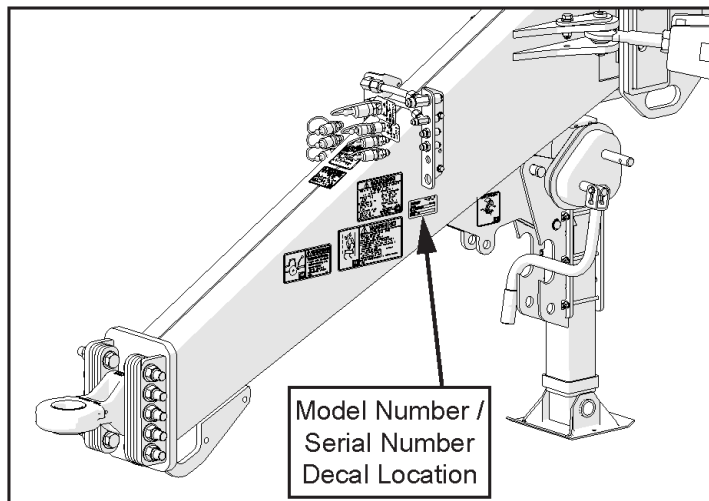


Fig. # 1-2 Model / Serial Number Decal Location

Case IH Planter Content Model Number / Serial Number Location

Always give your authorized Yieldtrac planter dealer the model number and serial number of your Case IH planter content (Wholegood) when ordering parts, requesting service, or any other information to provide the most efficient service.

The model number / serial number is identified in (Fig. # 1-3) below.

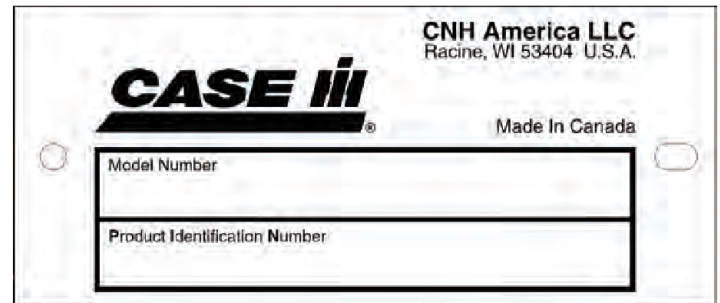


Fig. # 1-3
Model Number/Serial Number Decal

The model number / serial number is located where indicated below. (See Fig. # 1-4)

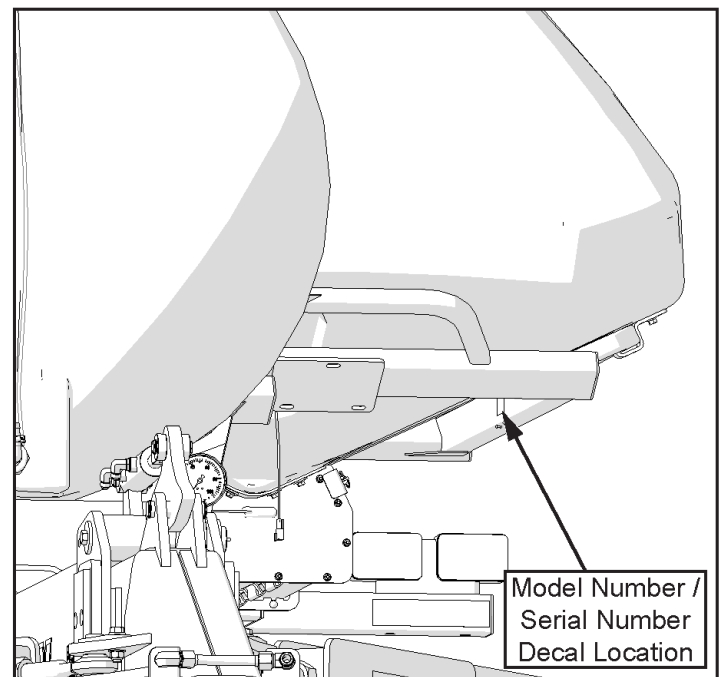
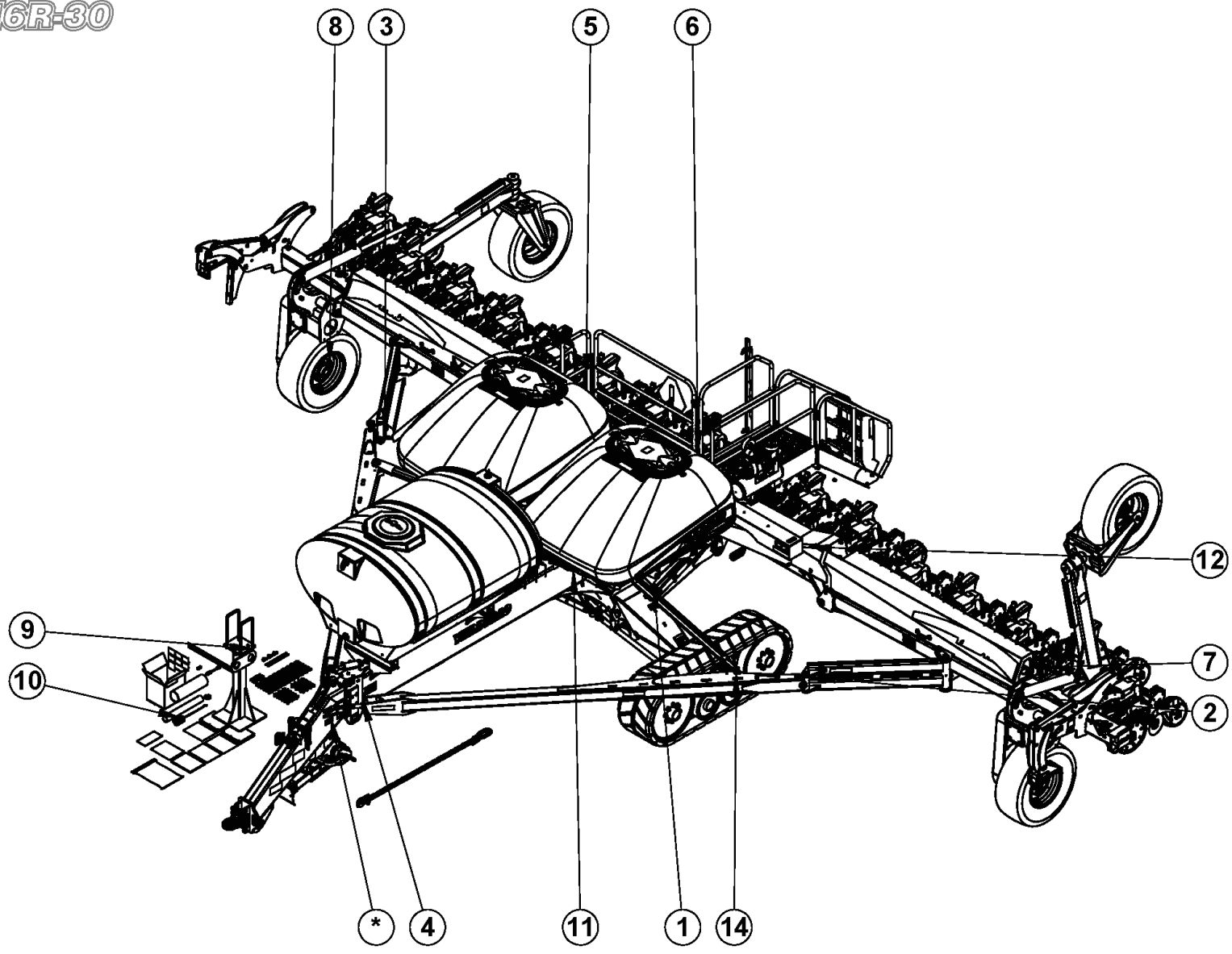


Fig. # 1-4 Model / Serial Number Decal Location On Bulk Fill Assembly

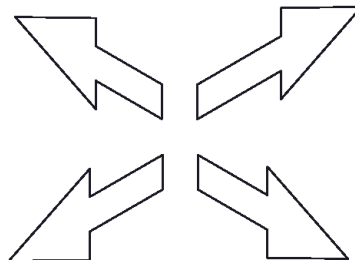


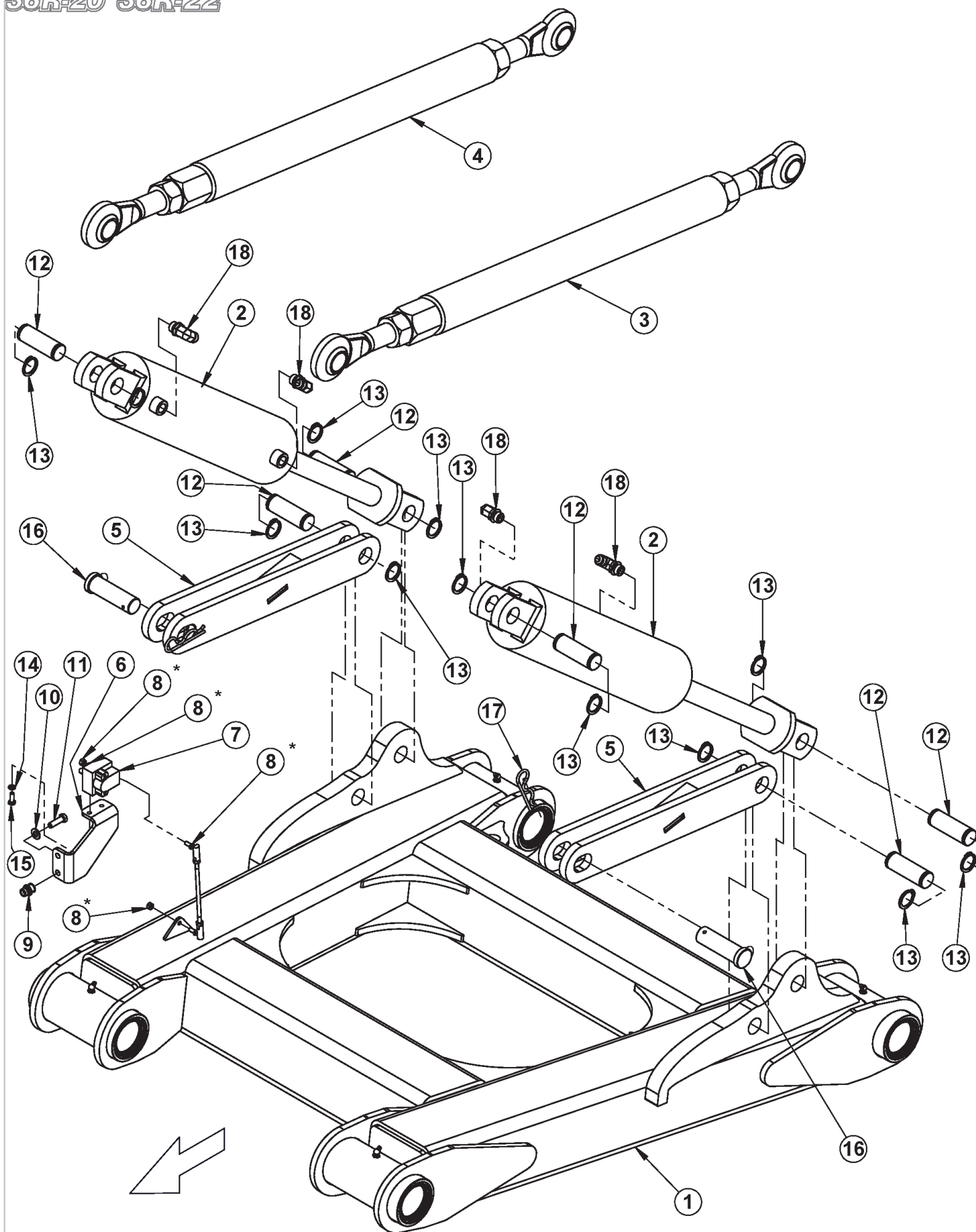
TA01800 Yieldtrac 16R30

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01206	Assy, Complete Lift	1	
2	TA01382	Assy, Tow Bar Gate - LH	1	
3	TA01383	Assy, Tow Bar Gate - RH	1	
4	TA01384	Assy, Tow Bar	2	
5	TA01655	Assy, 30" Center Bar	1	
6	TA01748	Assy, Ladder Platform	1	
7	TA01772	Assy, 2000 16R30 Wing	1	
8	TA01773	Assy, 2000 16R30 Wing	1	
9	TA01774	Assy, Bulk Material 16R30 FF 2000	1	
10	TA01777	Operator's Package 16R30 FF 2000	1	
11	TA01806	Bulk Fill Assy (2000)	1	
12	TA01808	Assy, 16R30 LH Stub Arm	1	
13	TA01809	Assy, 16R30 RH Stub Arm	1	
14	TW001398	Wdmt, Control Link	2	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



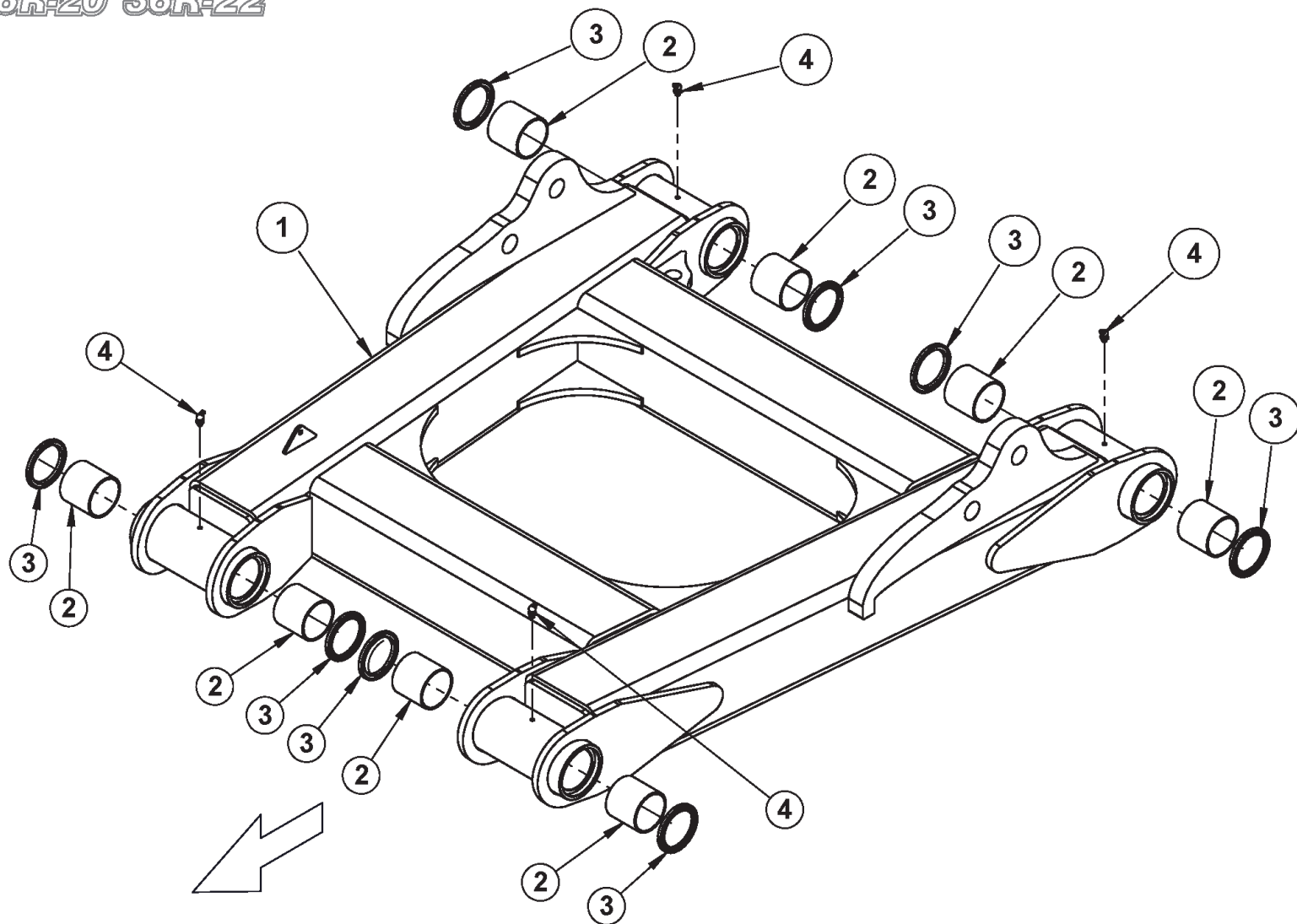


TA01206 Assy, Complete Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TA01214	Assy, Main Lift	1	
2	TA01234	Cylinder, Hyd 4.5X14.00 Reph	2	
3	TA00613	Upper Link Assy	1	
4	TA00613	Upper Link Assy	1	
5	TW001171	Wldmt, Cylinder Stop Link	2	
6	T0053846	Bracket, Height Sensor	1	
7	404202A1	Sensor Rotary Position	1	
8	TA00630	Assy, Position Sensor Link	1	
9	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
10	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
11	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
12	PIN-1.250X3.25Y	Pin-1.2500x3.250-YZ	6	
13	SRING-EXT-HD-1.25Y	SRING-EXT-HD-1.25Y	12	
14	LW-0.250Y	Washer, Split Lock 1/4" YZ	2	
15	HB-0.250-20X0.75Y8	Bolt, Hex Hd 1/4-20x3/4-YZ8	2	
16	CLPIN-1.250X4.00Y	Clevis Pin, Ø1.25" X 4" YZ	2	
17	HPINCLIP-1.250Y	Hair Pin Clip-Ø1.2500" YZ	2	
18	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	4	

Note:

1. * Items marked with an asterisk are items that are included in that particular part or assembly.

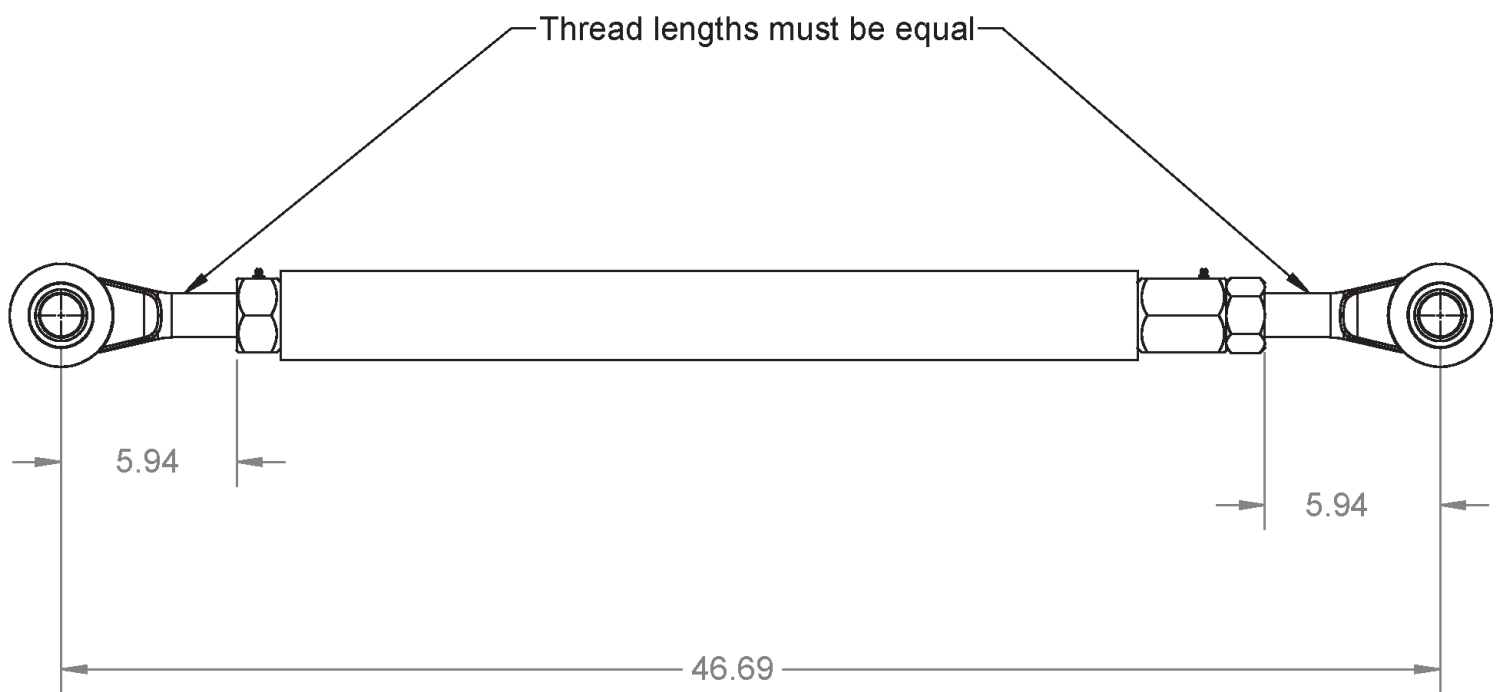
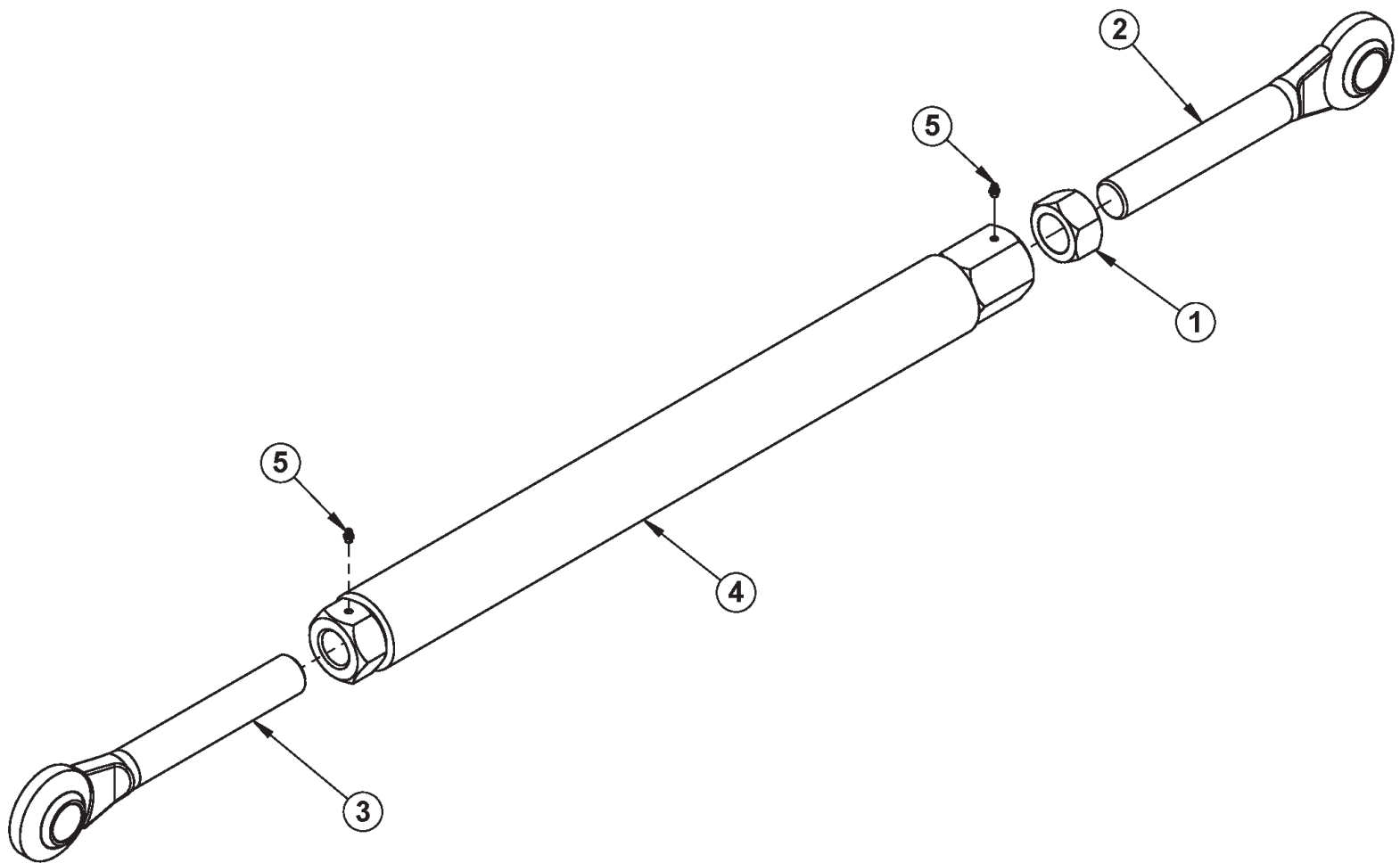


TA01214 Assy, Main Lift

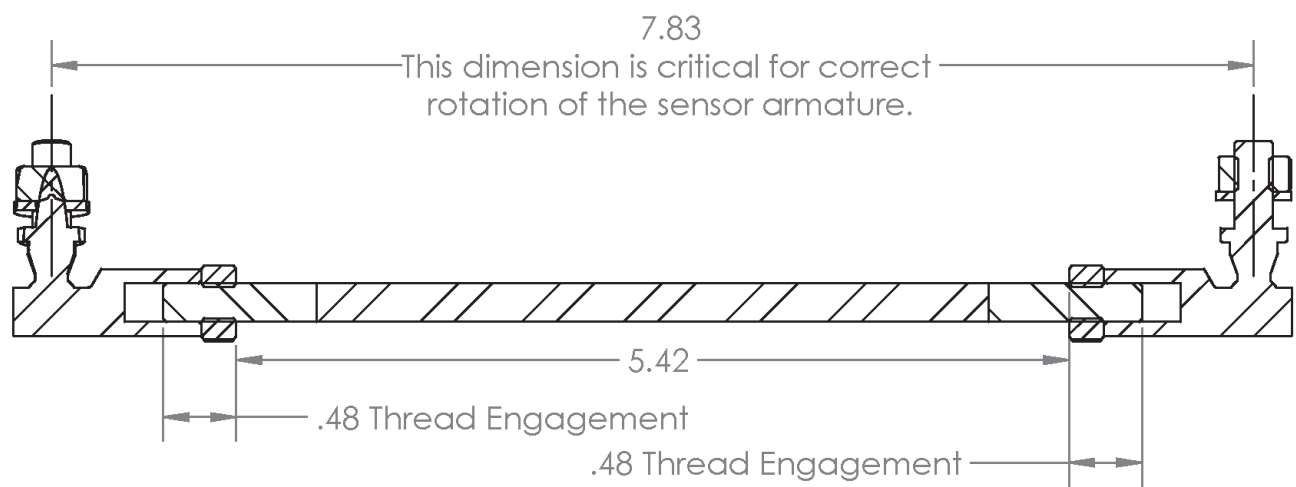
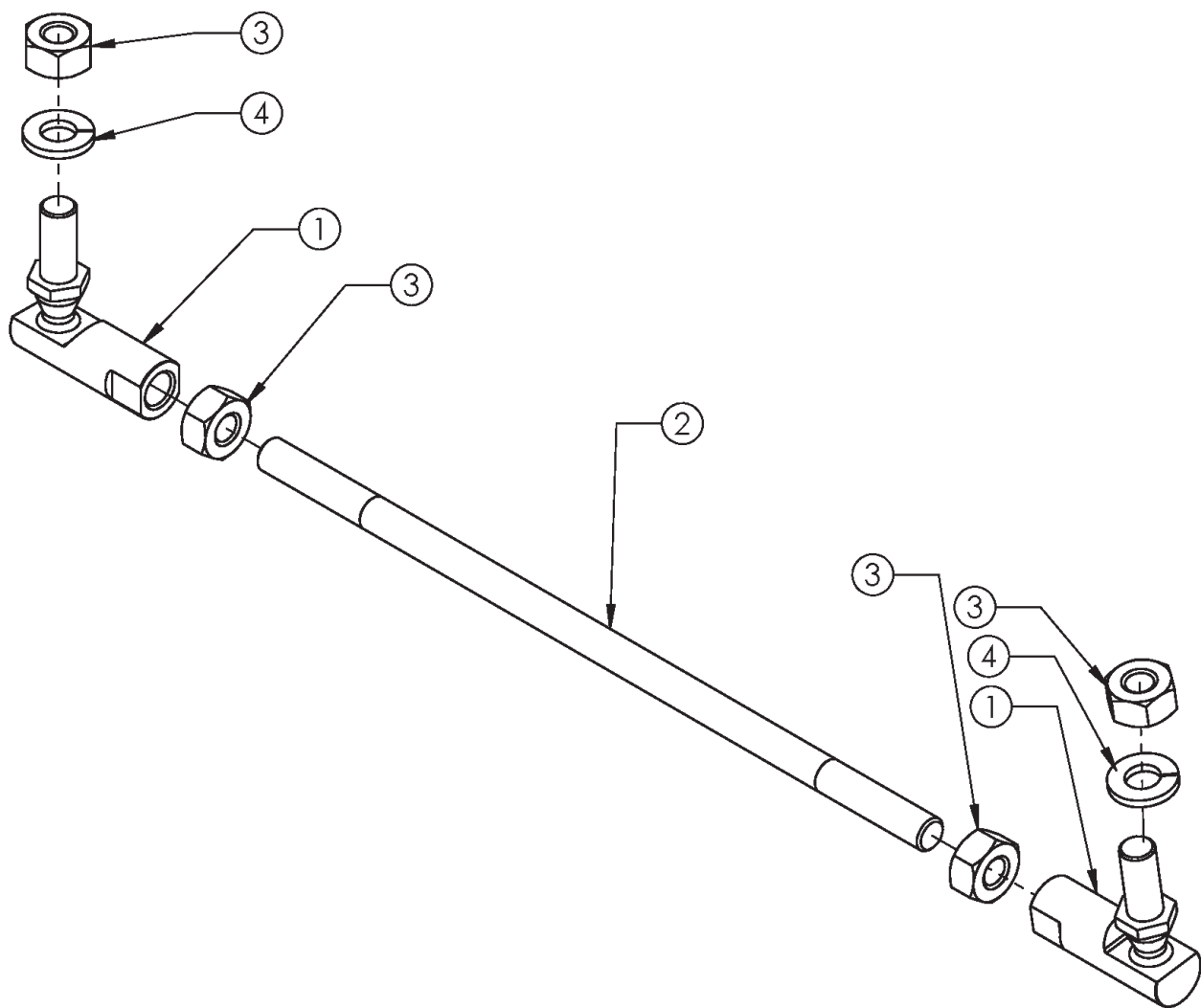
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001130	Wldmt, Main Lift	1	
2	PB-2.500X2.75X2.50	Bush, Polygon 2.500x2.75x2.50	8	
3	T0051584	2.50 Grease Seal	8	
4	ZERK-0.250-28X45	Zerk-1/4-28x45Deg	4	

Note:

1. T=XXX = Torque, and is expressed in ft-lbs.



TA00613 Upper Link Assy				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HNUT-1.500-6Y8	Nut, Hex 1-1/2-6 YZ8	1	
2	T0051213	RH End Link	1	
3	T0051214	LH End Link	1	
4	TW000618	Upper Link Weldment	1	
5	ZERK-0.250-28	Zerk, 1/4-28	2	

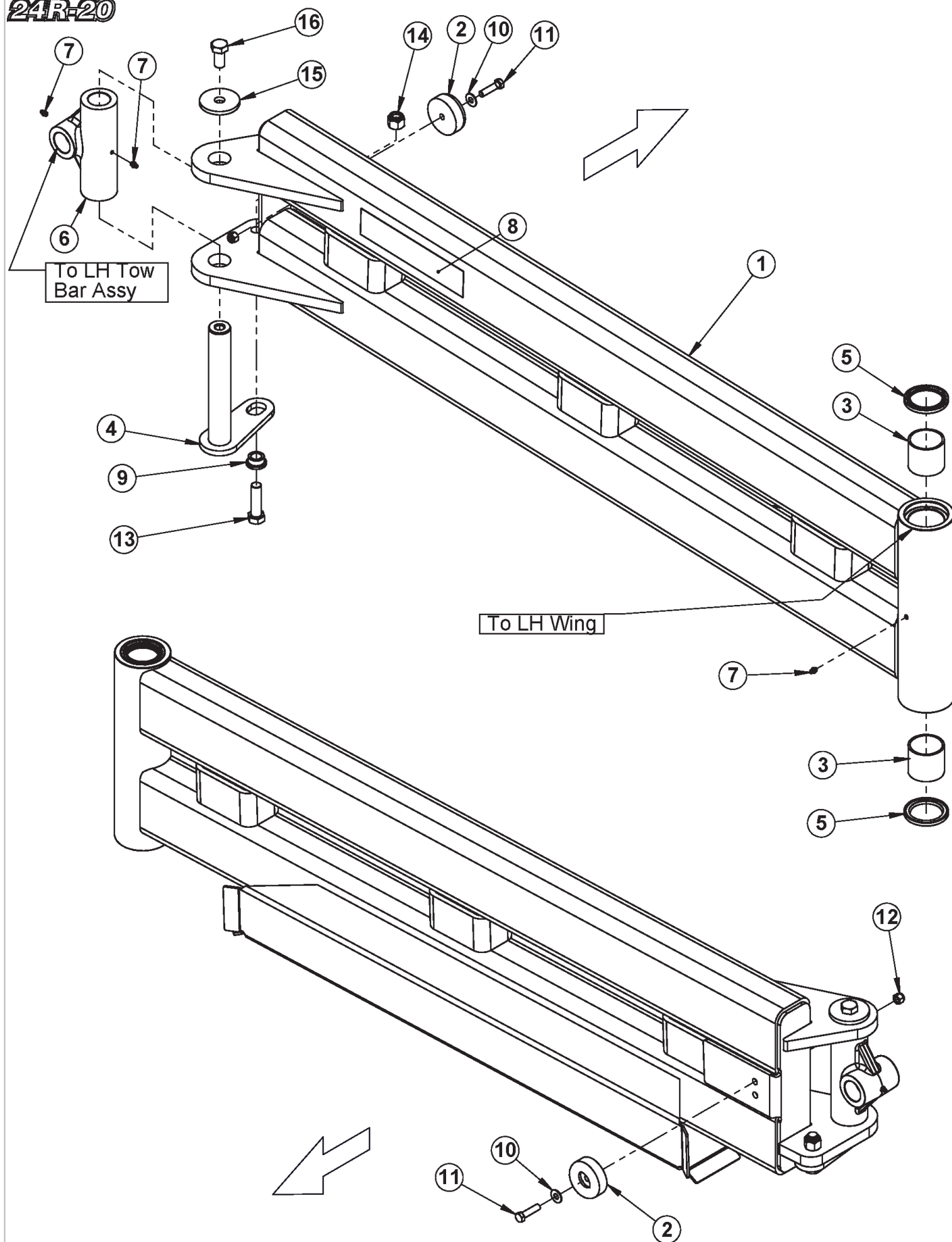


SECTION A-A
SCALE 1 : 1.25

TA00630 Assy, Position Sensor Link				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	BJ-0.250-28X90Y	BJoint-0.2500-28x90-YZ	2	
2	BJROD-0.250-28X6.38Y	BJoint-Rod 1/4-28x6-3/8-YZ	1	
3	HNUT-0.250-28Y8	Nut, Hex 1/4-28 YZ8	4	
4	LW-0.250Y	Washer, Split Lock 1/4" YZ	2	



24R-20

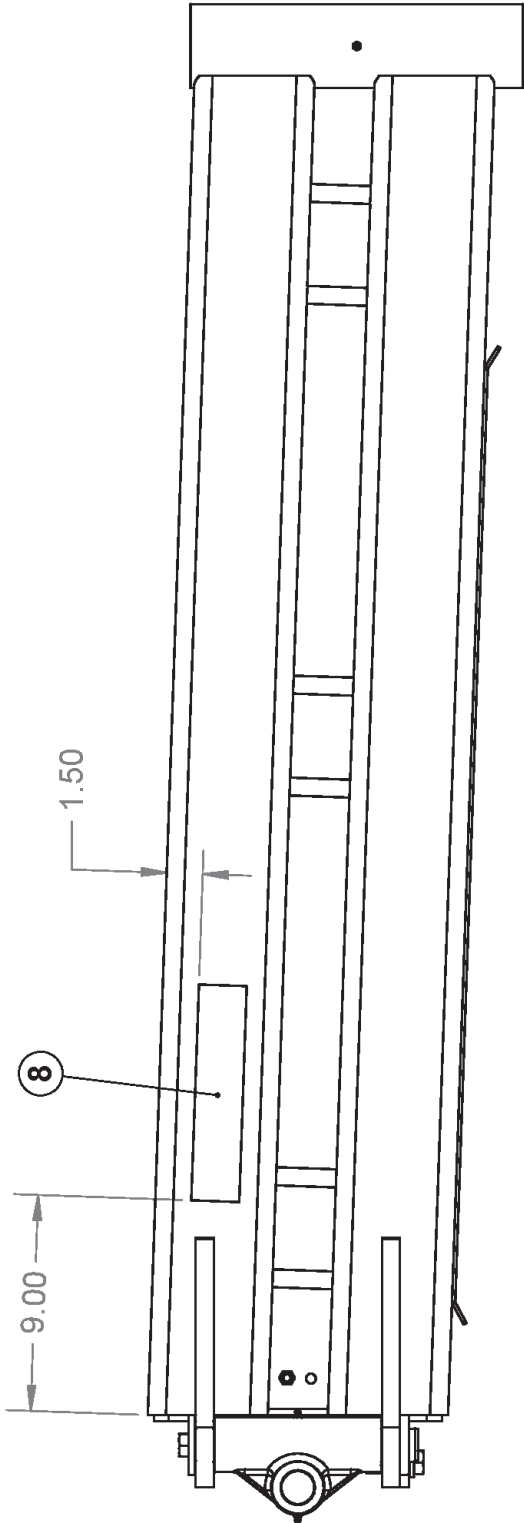


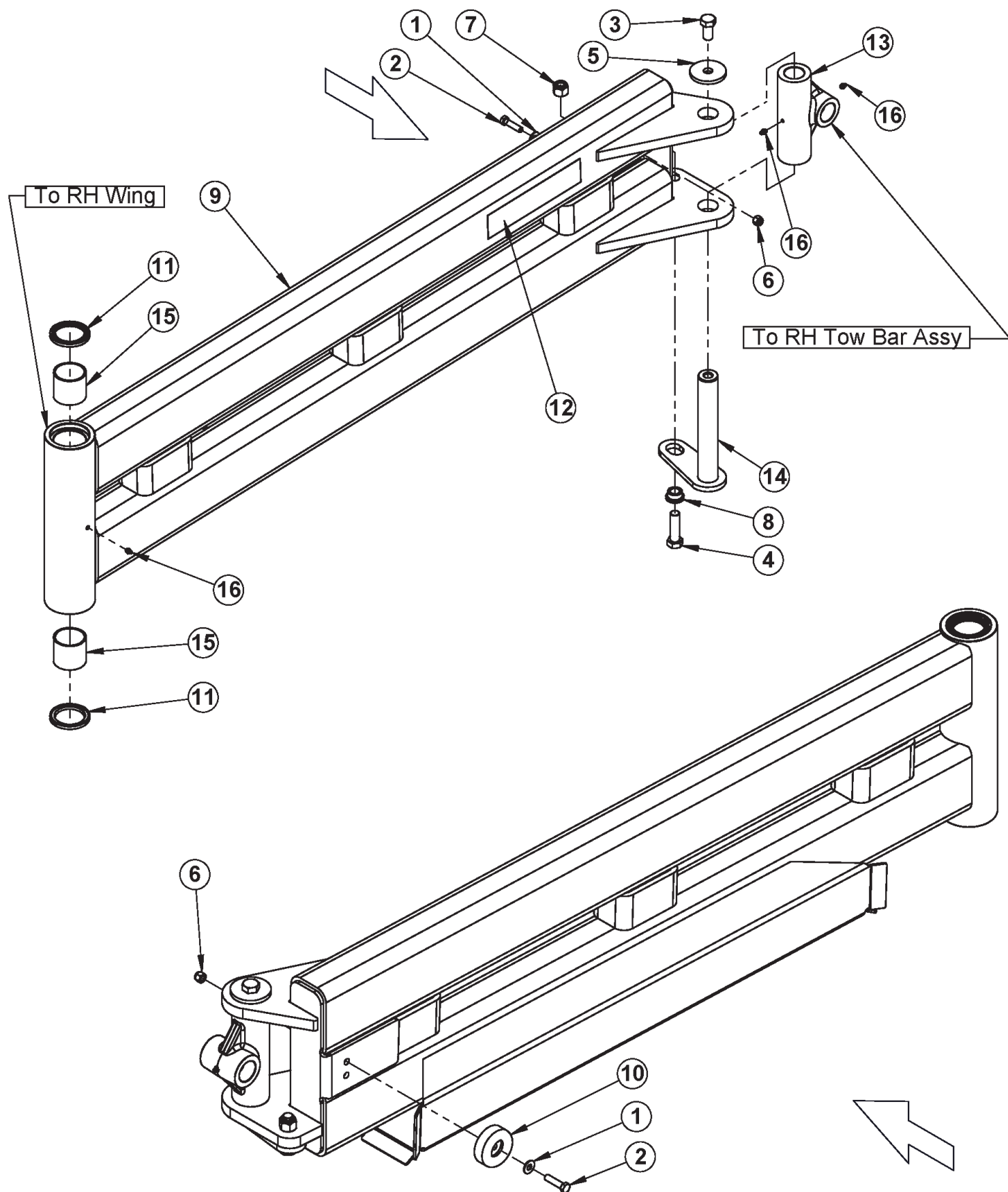
TA01382 Assy, Tow Bar Gate - LH

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft.-lbs)
1	TW001231	Wldmt, 24R20/22 LH Towbar Gate	1	
2	T0051481	Rubber Stop	1	
3	PB-2.000X2.25X2.00	Polyube Bush, Ø2.00xØ2.25x2.00	2	
4	TW000761	P'in Weldment	1	
5	T0051585	2.00 Grease Seal	2	
6	T0052223	Tow Bar Knuckle Machined	1	
7	ZERK-0.250-28	Zerk, 1/4-28	3	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	T0050854	Anti Rotation Insert	1	
10	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	1	
11	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	1	
12	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	1	
13	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
14	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
15	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	1	
16	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	1	

Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.



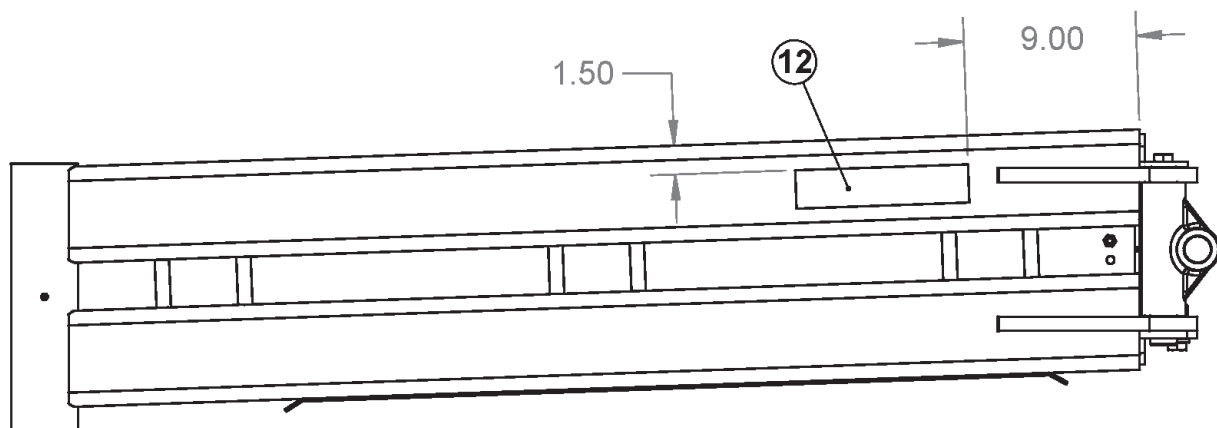


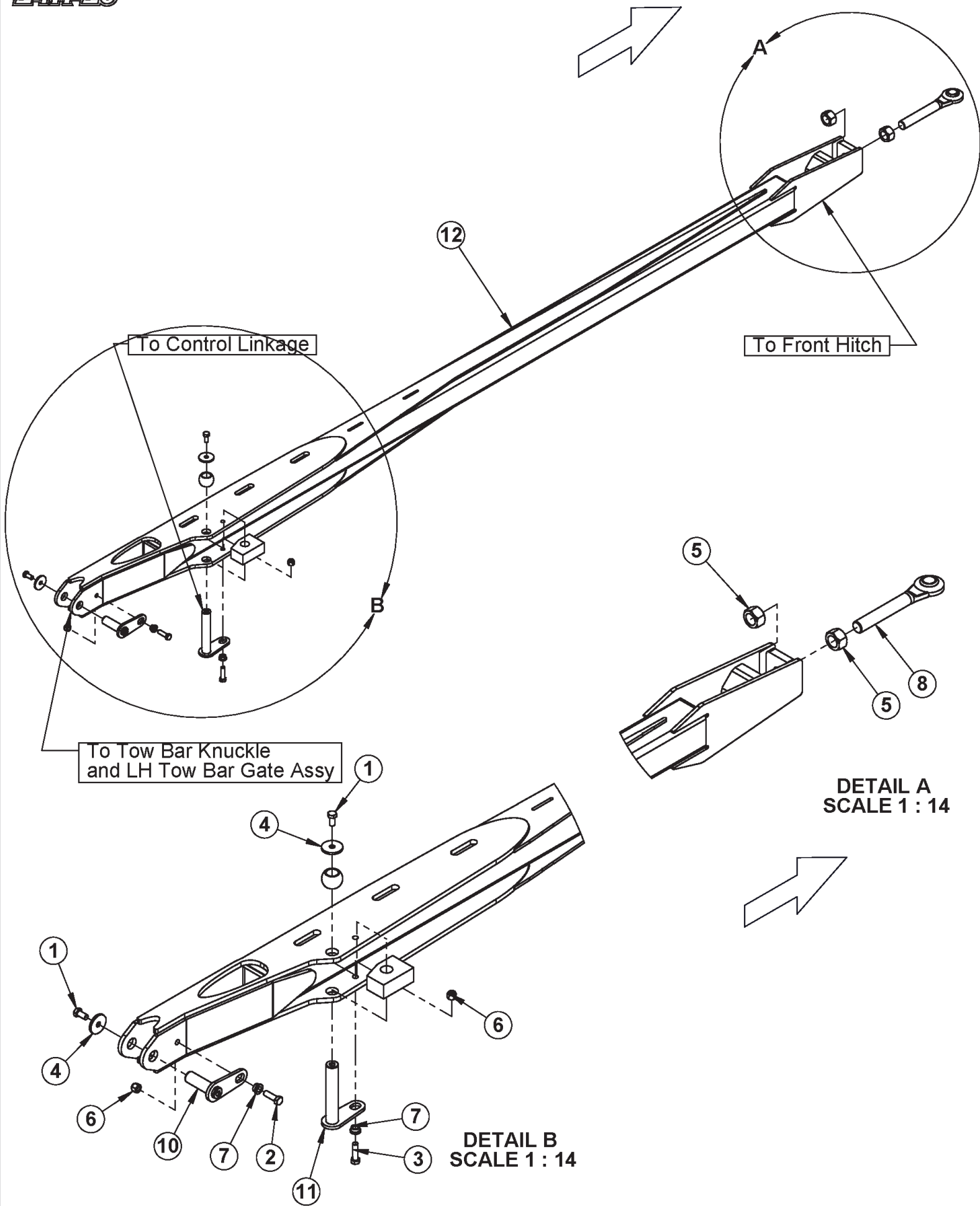
TA01383 Assy, Tow Bar Gate - RH

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	1	
2	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	1	
3	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	1	
4	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
5	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	1	
6	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	1	
7	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
8	T0050854	Anti Rotation Insert	1	
9	TW001232	Wldmt, 24R20/22 RH Towbar Gate	1	
10	T0051481	Rubber Stop	1	
11	T0051585	2.00 Grease Seal	2	
12	T0051729	Decal, Reflector, Yellow-2x9	1	
13	T0052223	Tow Bar Knuckle Machined	1	
14	TW000761	Pin Weldment	1	
15	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	2	
16	ZERK-0.250-28	Zerk, 1/4-28	3	

Note:

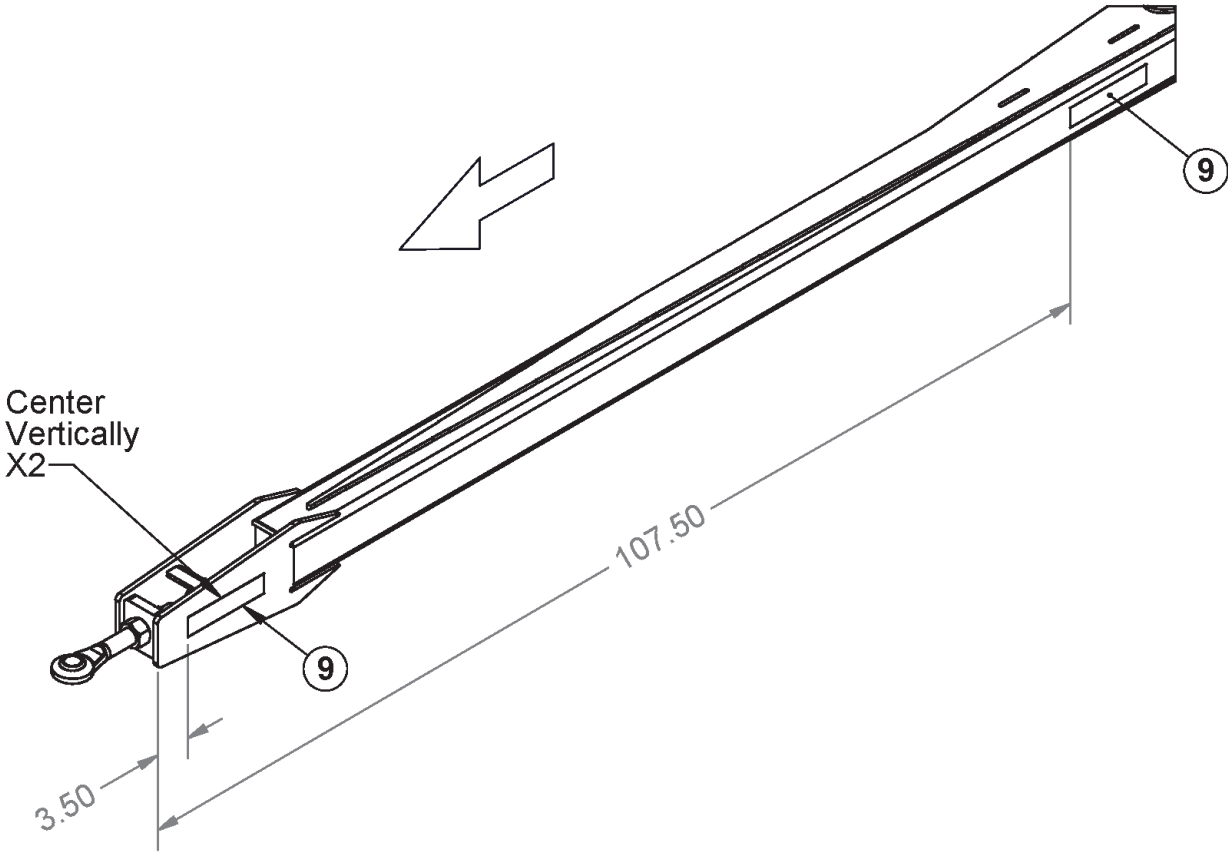
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

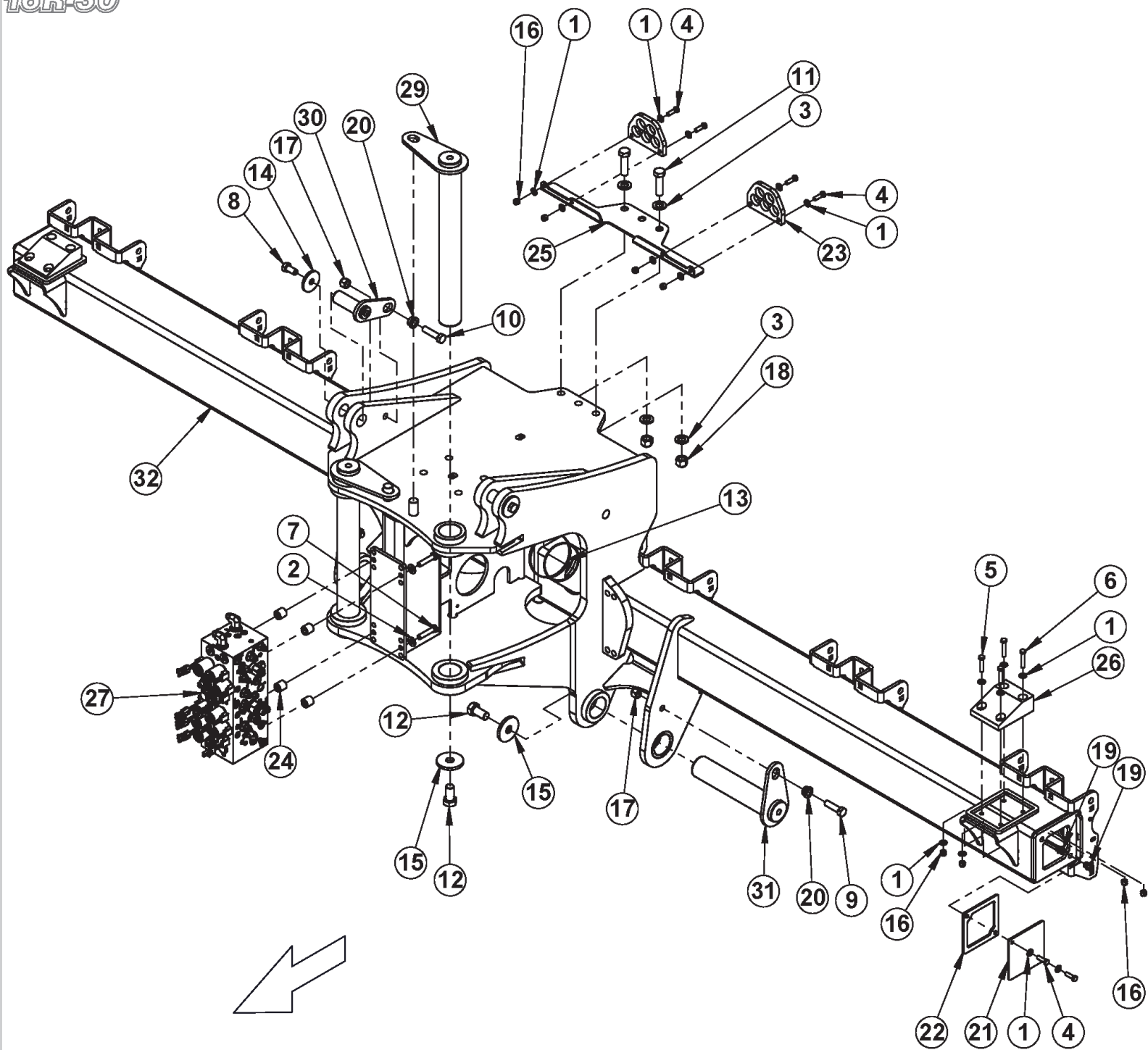




TA01384 Assy, Tow Bar

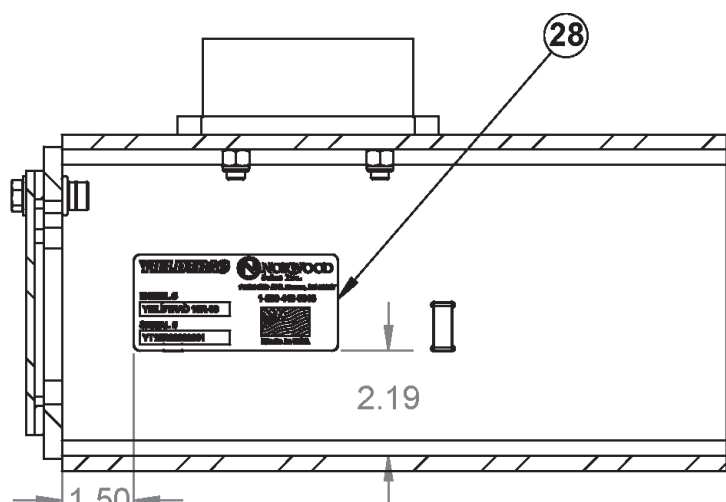
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
2	HB-0.625-11X2.00Y8	Bolt, Hex Head-5/8-11x2-YZ8	1	
3	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
4	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
5	HNUT-1.500-6Y8	Nut, Hex 1-1/2-6 YZ8	2	
6	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
7	T0050854	Anti Rotation Insert	2	
8	T0051213	RH End Link	1	
9	T0051729	Decal, Reflector, Yellow-2x9	2	
10	TW000763	Pin Weldment	1	
11	TW000894	Pin Weldment	1	
12	TW001234	Wldmt, 24R20/22 Tow Bar	1	
13	T0053376	Block, Tow Bar	1	





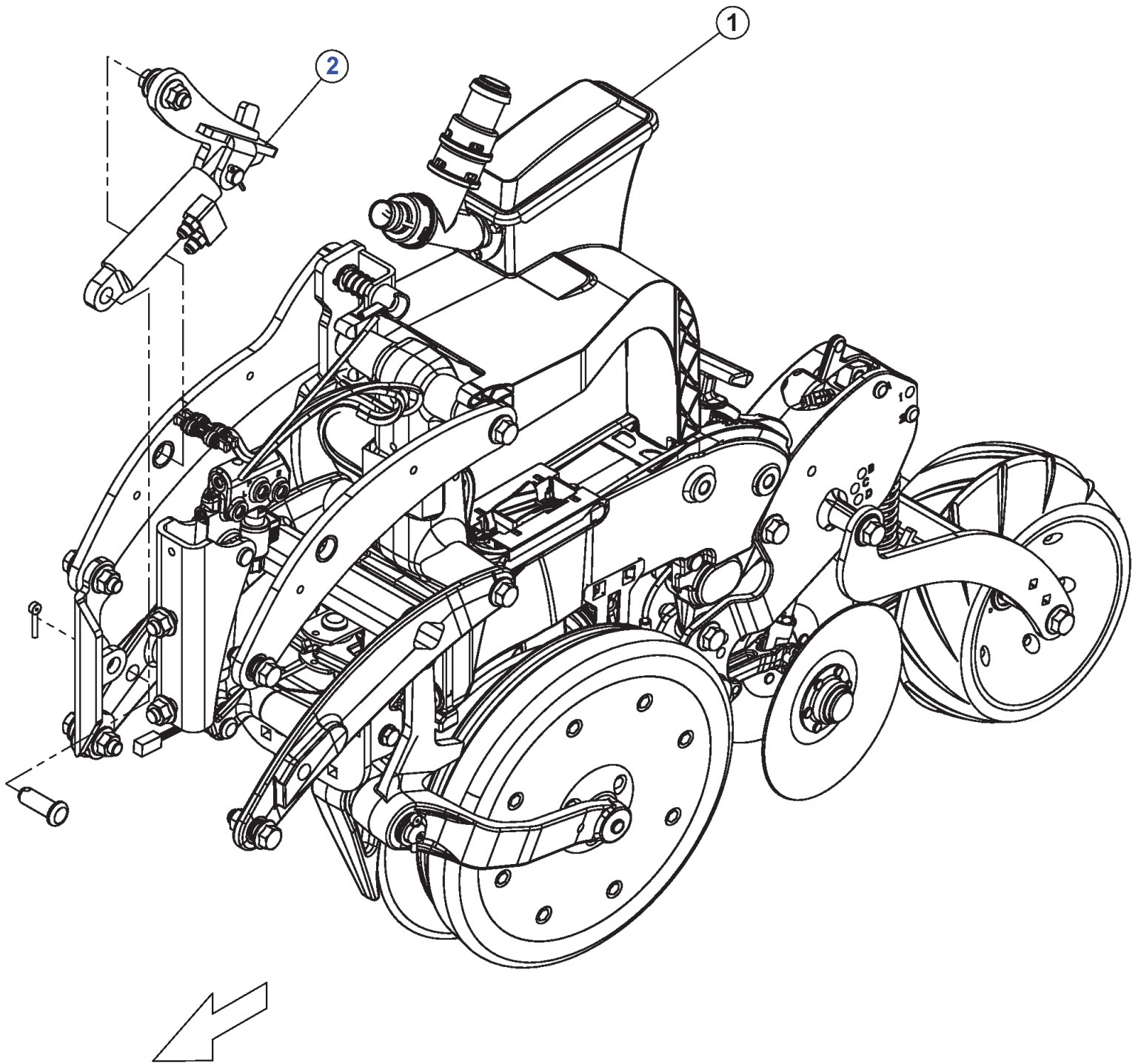
TA01658 Assy, 30" Center Bar Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	24	
2	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
3	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	4	
4	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	8	
5	HB-0.375-16X1.75Y8	Bolt, Hex Hd-3/8-16x1-3/4-YZ8	4	
6	HB-0.375-16X2.00Y8	Bolt, Hex Hd 3/8-16x2-YZ8	4	
7	HB-0.500-13X2.25Y8	Bolt, Hex Hd 1/2-13x2-1/4 YZ8	4	
8	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
9	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
10	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	2	
11	HB-0.750-10X2.75Y8	Bolt, Hex Hd 3/4-10x2-3/4-YZ8	2	
12	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	4	
13	HCLMP-SAE-512SS	HClamp-SAE-512-SS	2	
14	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
15	HDWSH-0.89X3.00Y	HD Washer 0.89 x 3.00	4	
16	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	12	
17	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	4	
18	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	2	
19	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	4	
20	T0050854	Anti Rotation Insert	4	
21	T0052124	Clean Out Cover	2	
22	T0052125	Seal, Clean Out Cover	2	
23	T0052450	Guide, Hose Seed Tube Cen Fr	2	
24	T0052525	Spacer, L&F Valve	4	
25	T0054208	Brkt, Seed Hose Mtg	1	
26	T0054271	Slider Block	2	
27	T0054378	Valve Assy, Lift & Fold	1	
28	T0055745	Decal, S/N 16R30 2018	1	
29	TW001008	Pin Weldment	2	
30	TW001009	Pin Weldment	2	
31	TW001012	Pin Weldment	2	
32	TW001311	Wldmt, 30" Center Bar	1	



SECTION G-G
SCALE 1 : 4

Secondary Serial Number
Decal Installation

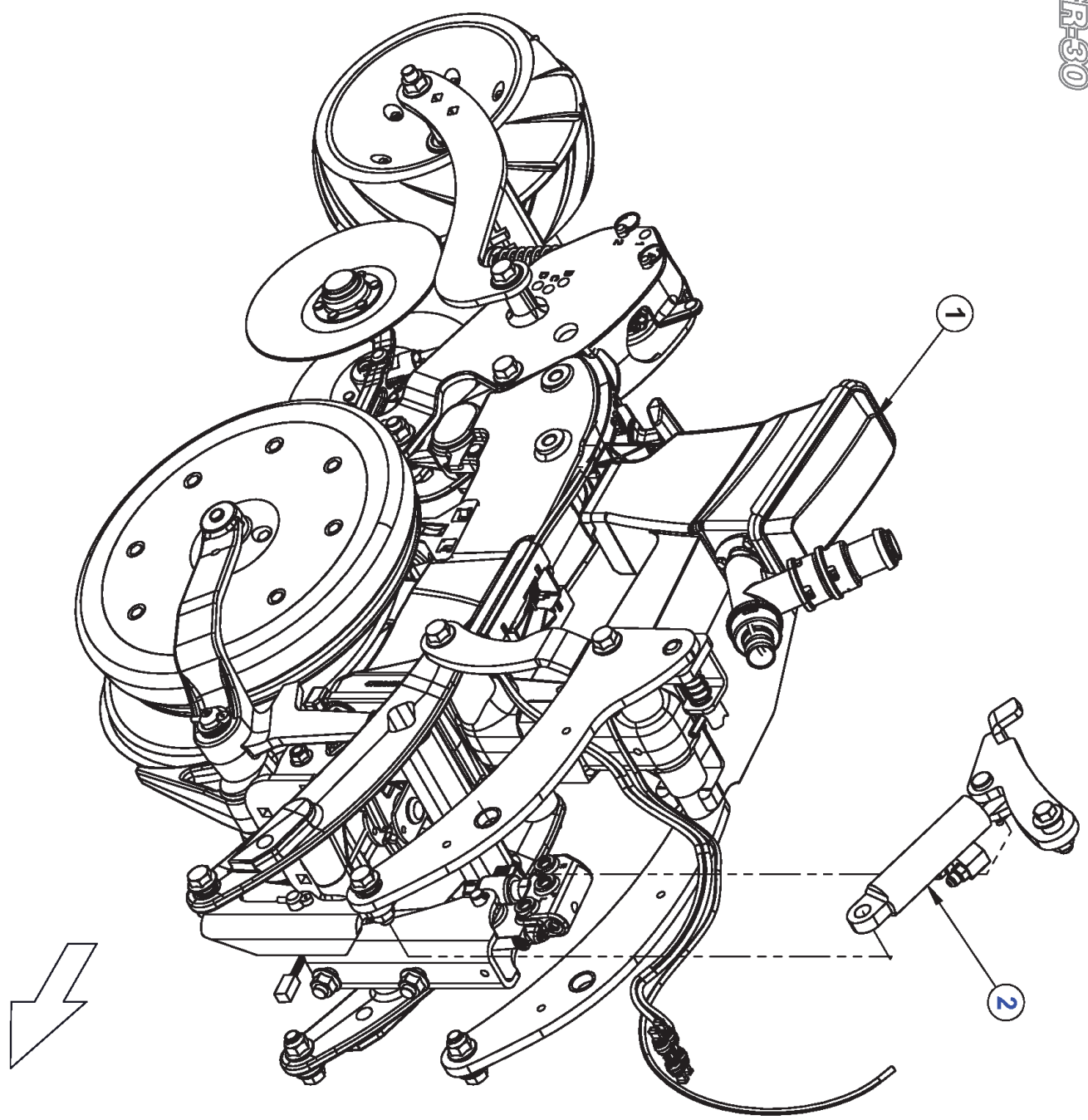


TA01801 2000 LH Row Unit w/RUL

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	48098614	2100 LH Row Unit	1	
2	TA01803	Assy, Hyd Row Lift	1	

Note:

- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.

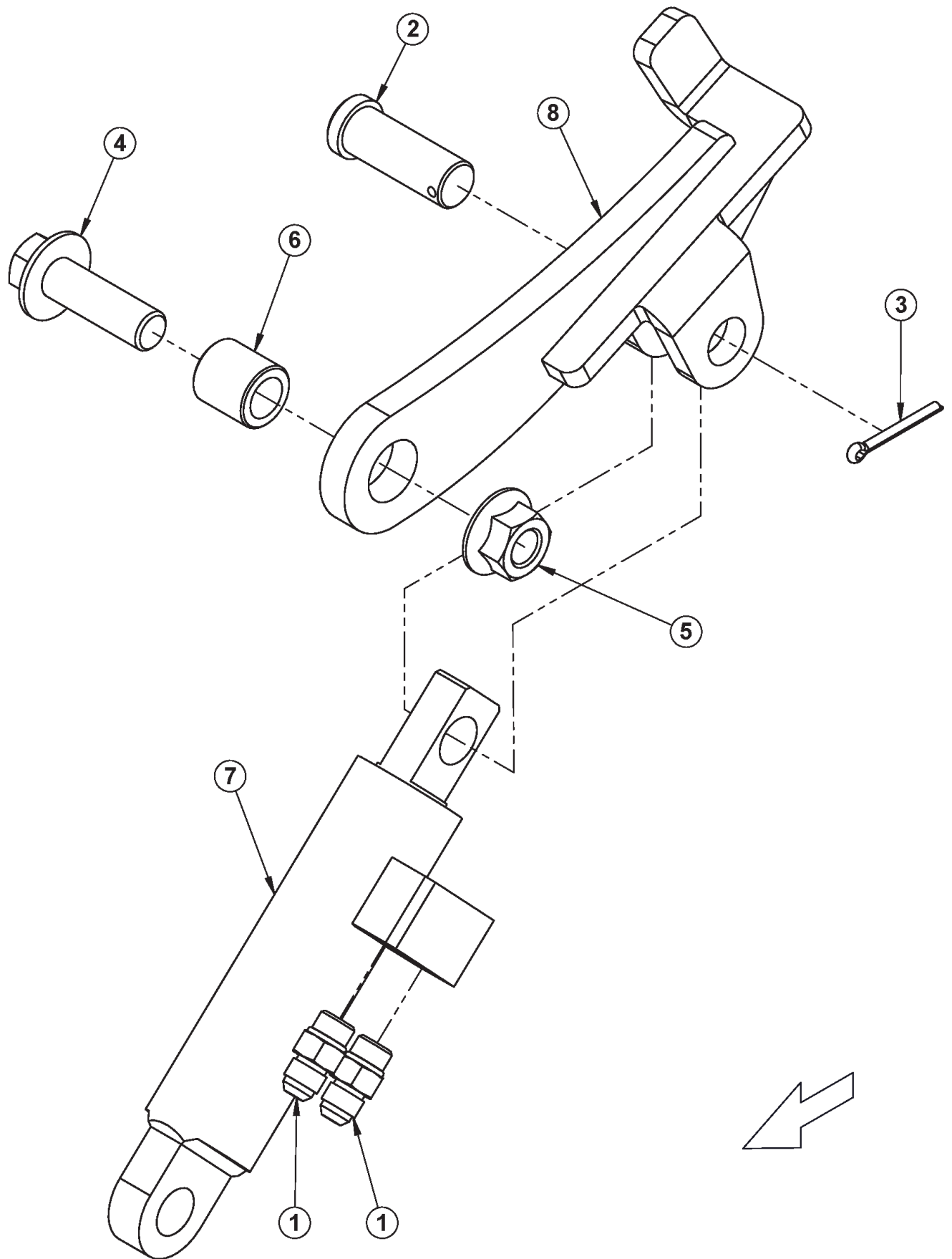


TA01802 2000 RH Row Unit w/RUL

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	48098615	2100 RH Row Unit	1	
2	TA01803	Assy, Hyd Row Lift	1	

Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.

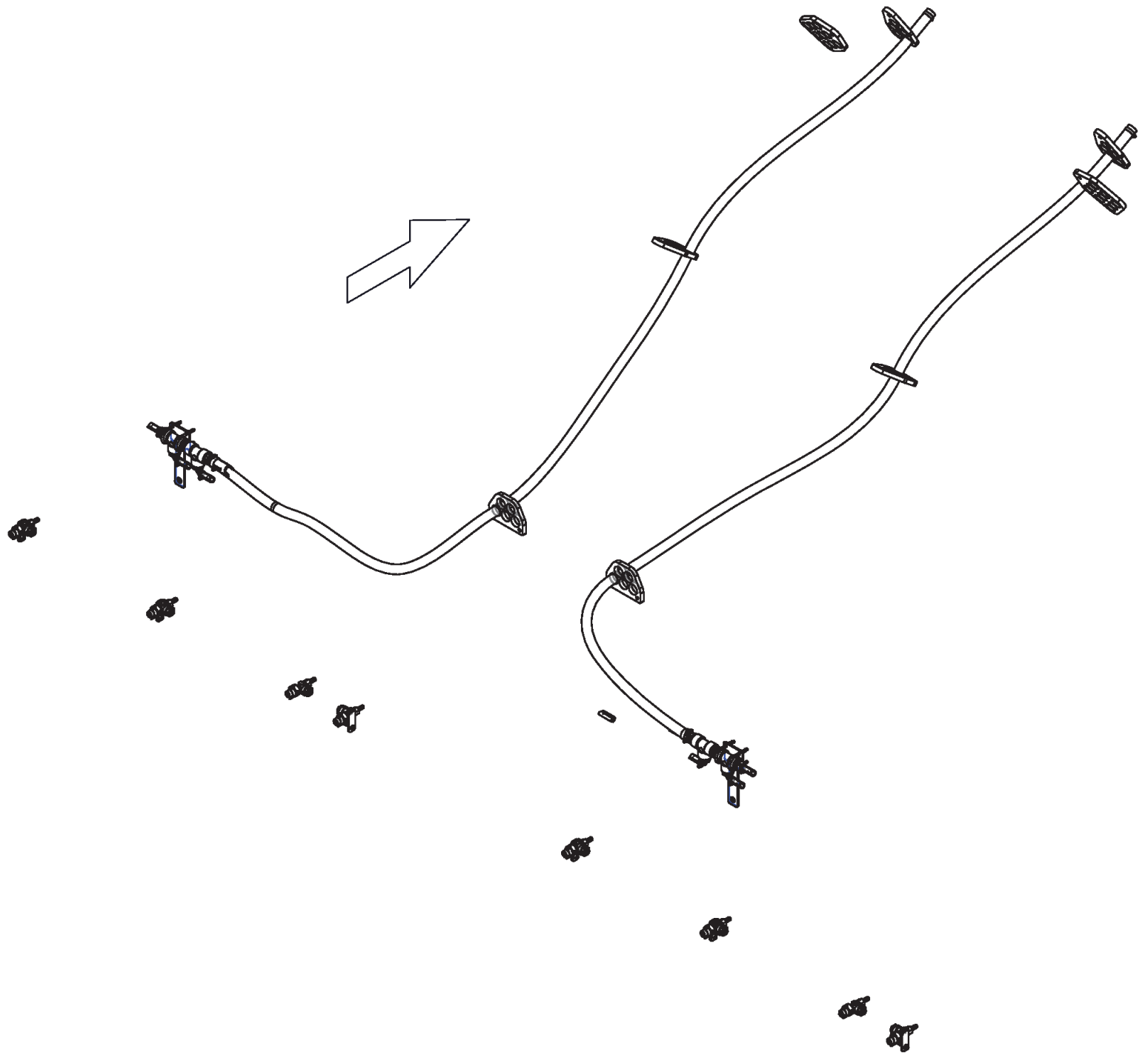


TA01803 Assy, Hyd Row Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MJ-06MB	ADAPTER 06MJ-06MB	2	
2	CLPIN-0.75X2.00C	Clevis Pin, 3/4" x 2.00"	1	
3	CTPIN-0.156X1.50	COTTERPIN 5/32 X 1-1/2	1	
4	FLHB-M16-2.0x50-Y10.9	Bolt, Hex Flange M16-2.0x50-YZ10.9	1	
5	FLTLN-M16-2.0Y10	Nut, TL Hex Flange M16-2.0 YZ10	1	
6	T0055692	Bushing, Pivot	1	
7	TA01736	Cylinder, Hyd 1.18x4.25 SA	1	
8	TW001372	Wldmt, Row Lift Arm	1	

Note:

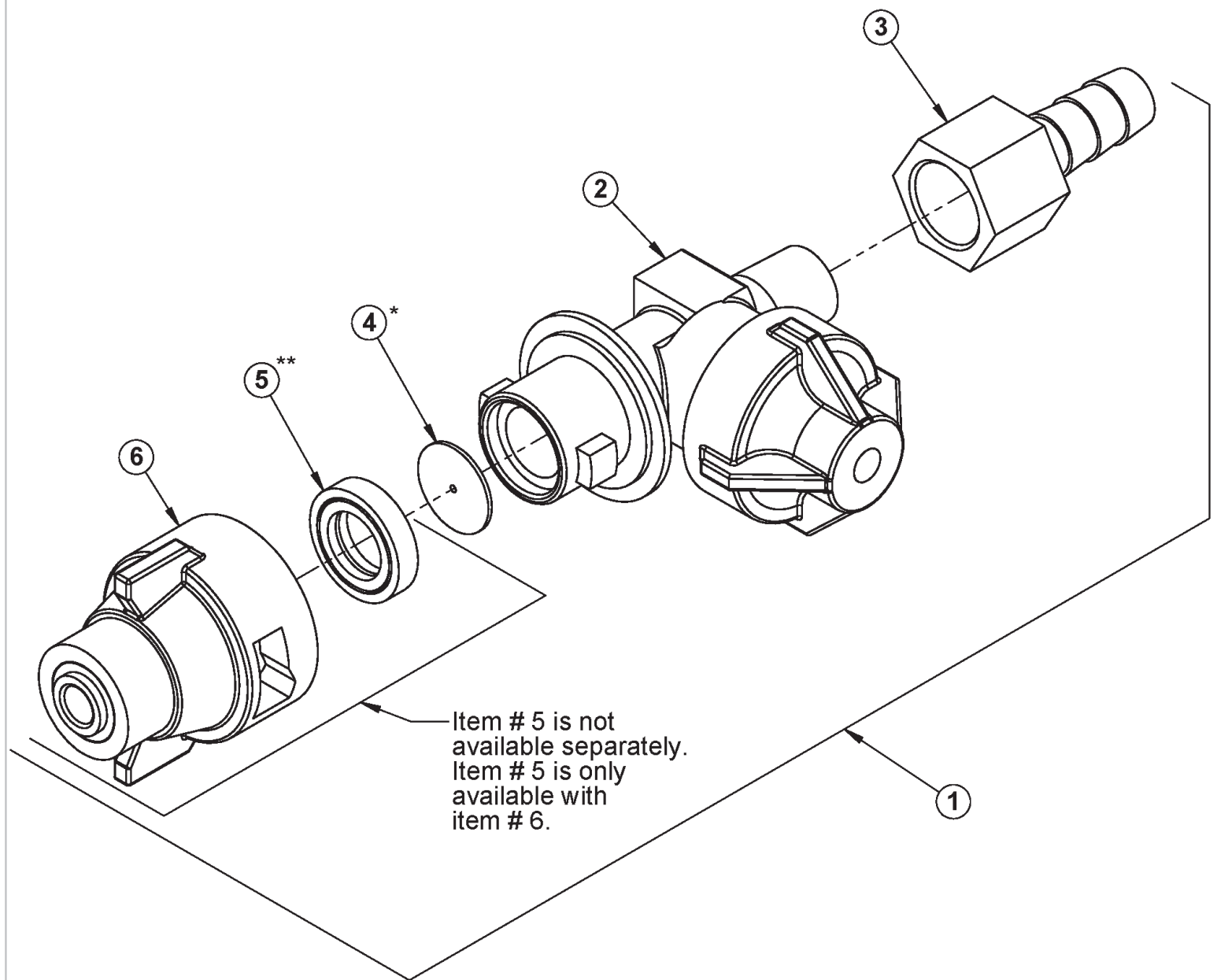
- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.



See Drawing P/N's T0055473,
T0055474, T0055479, & T0055480

TA01573 Assy, 24R30 Center Bar Fert Routing

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	4	
2	Hose-Ø.375 ID AG Spray 200	Hose, Ø.375 ID Ag Spray 200	1	
3	T0051533	Tee Jet Clip RH	4	
4	T0051651	TeeJet Clip LH	2	
5	T0051652	Plate Check Valve Mount	6	
6	T0054930	Hose, Ag Spray 200 Ø3/4X120	1	
7	T0054931	Hose, Ag Spray 200 Ø3/4X97.5	1	
8	TA00674	Tee Jet Valve Assy	1	
9	TA00674	Tee Jet Valve Assy	1	
10	TA00674	Tee Jet Valve Assy	1	
11	TA00674	Tee Jet Valve Assy	1	
12	TA00674	Tee Jet Valve Assy	1	
13	TA00674	Tee Jet Valve Assy	1	
14	TA00674	Tee Jet Valve Assy	1	
15	TA00674	Tee Jet Valve Assy	1	
16	TA00751	Assy, Manifold Fert Cen Bar	1	
17	TA00751	Assy, Manifold Fert Cen Bar	1	

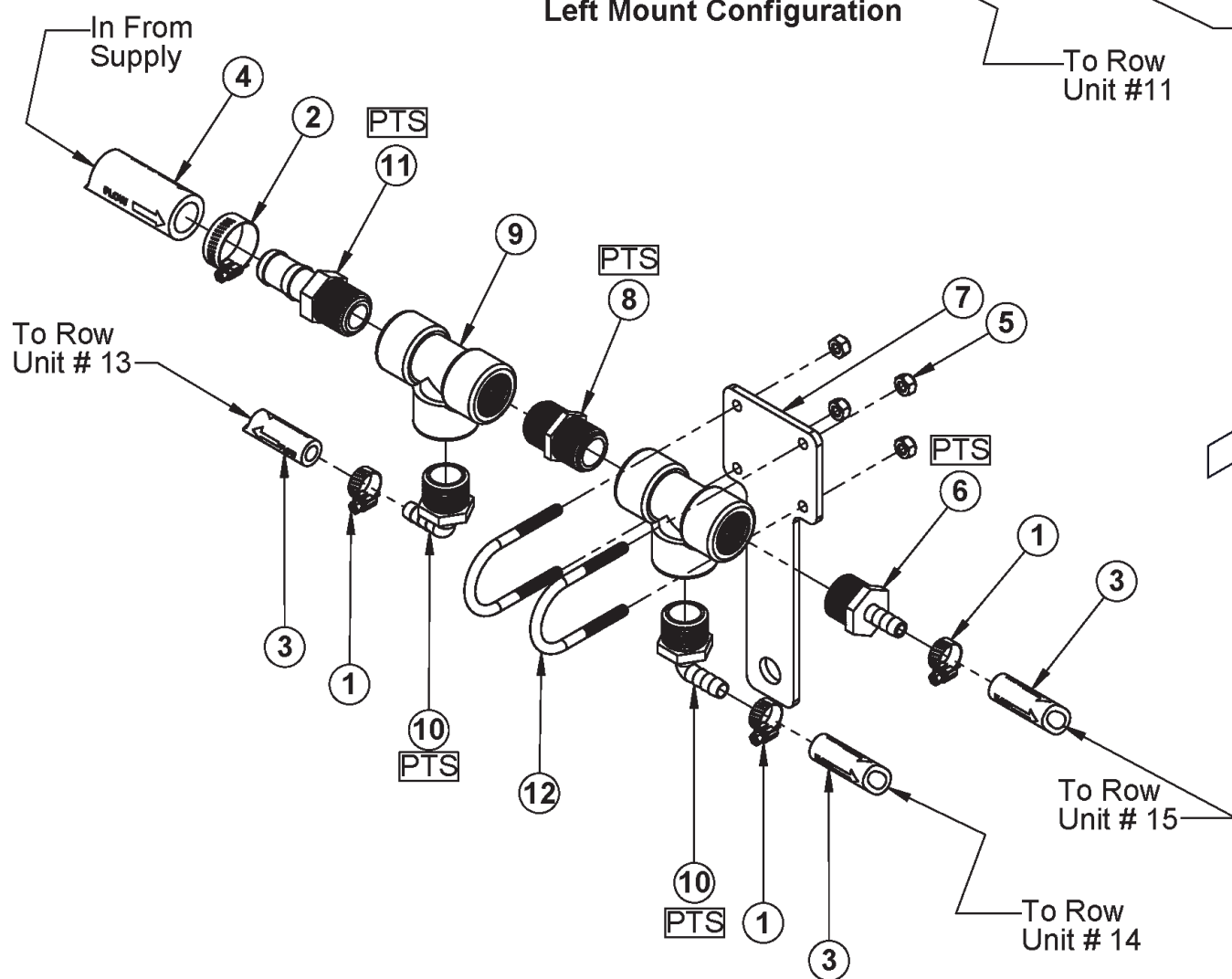
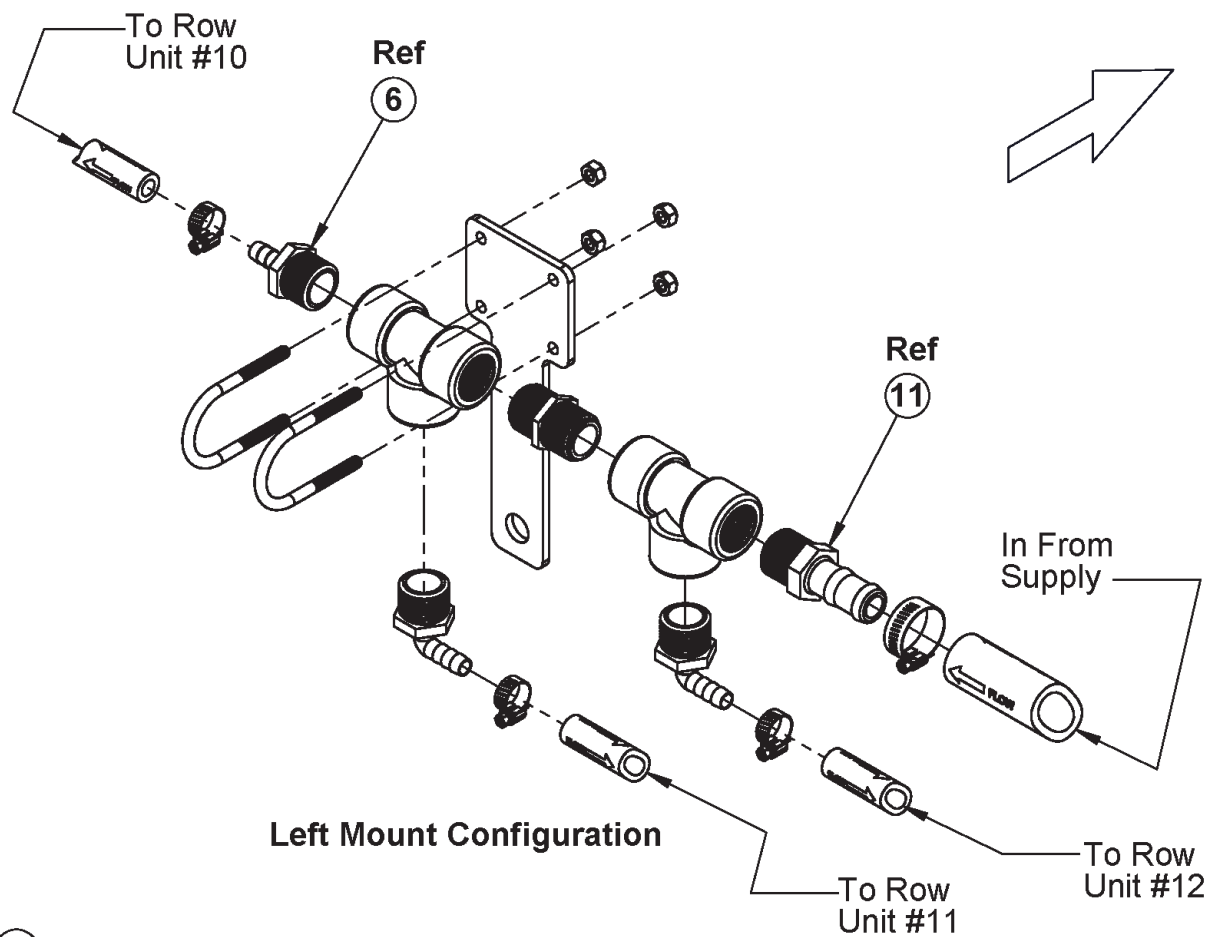


TA00674 Tee Jet Valve Assy

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA00674	Tee Jet Valve Assy	1	
2	T0051529	Tee Jet Check Valve Assy	1	
3	T0051544	Hose Barb 1/4" FPT x 3/8" HB	1	
4	T0051531	Orifice - .047	1	
5	T0051532	Orifice Seal	1	
6	T0051530	TeeJet 1/4 Inch Hose Adaptor	1	

* Note: Item # 3 is not installed so that the end user may pick the preferred size orifice.
See your Titan Machinery dealer.

** Item # 5 is included with item # 6.



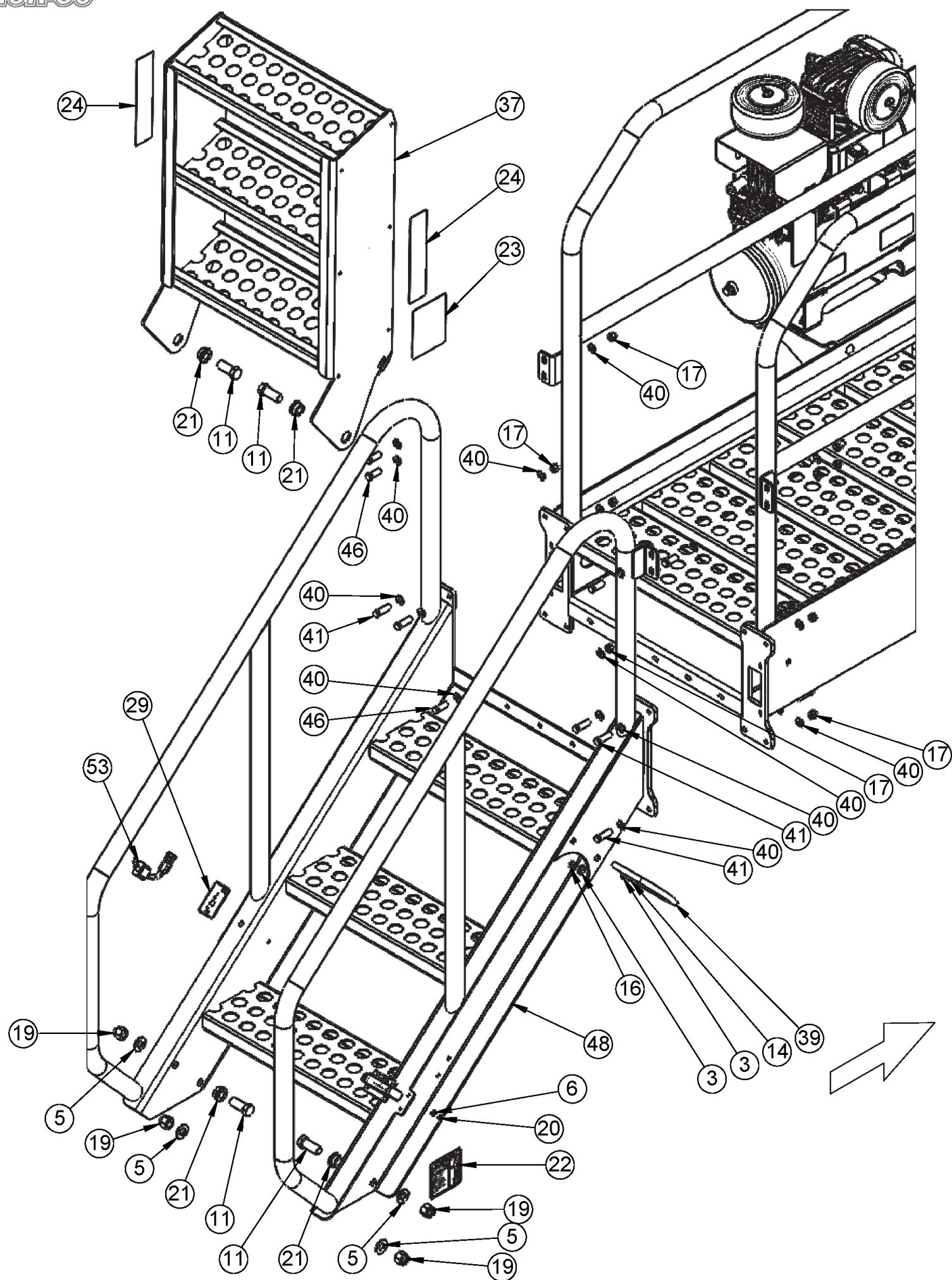
Right Mount Configuration

TA00751 Assy, Manifold Fert Cen Bar

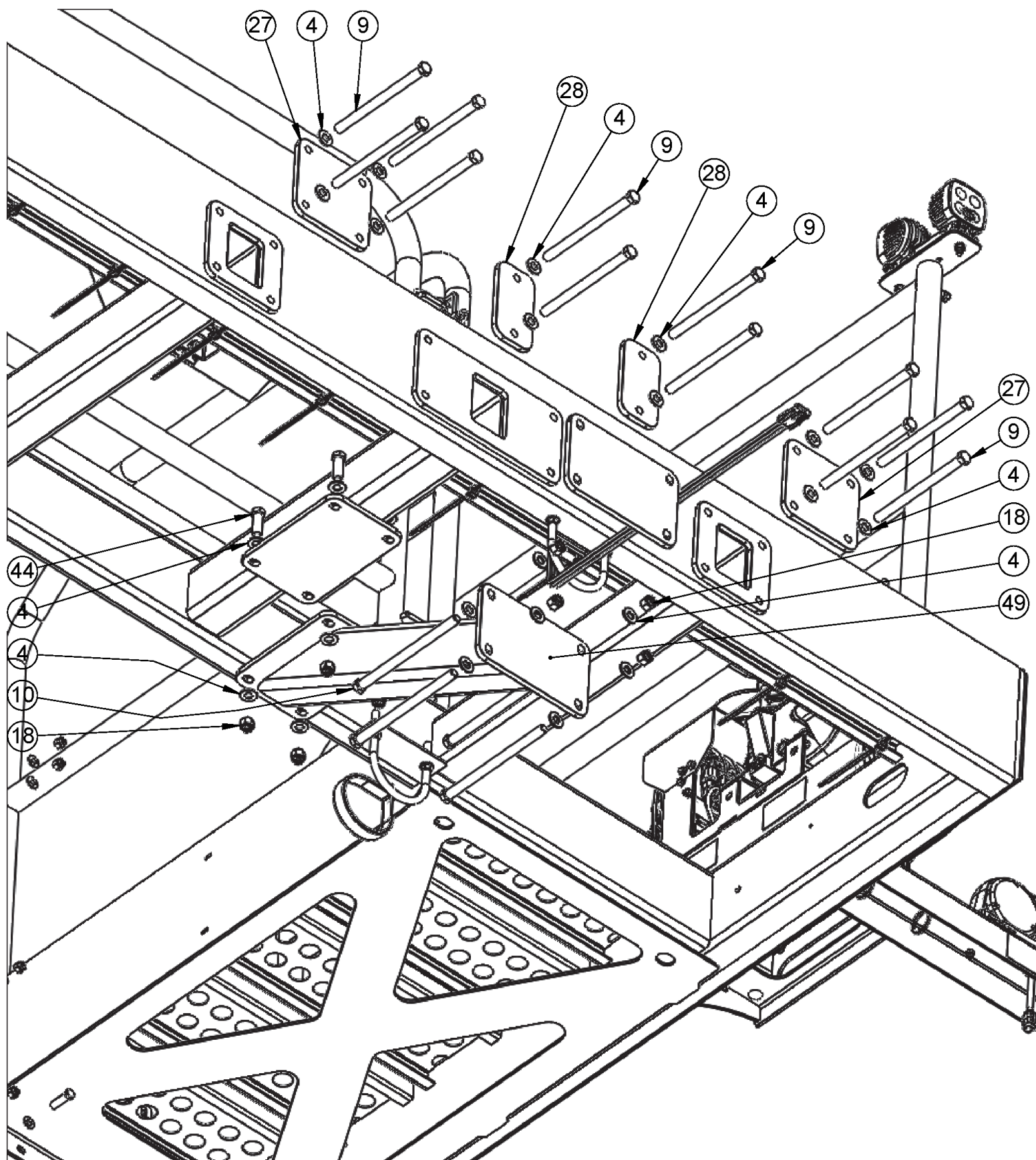
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	HCLMP-SAE-06SS	Hose Clamp, SAE #6-SS	3	
2	HCLMP-SAE-10SS	Clamp, Hose-SAE #10-SS	1	
3	Hose-Ø.375 ID AG Spray 200	Hose, Ø.375 ID Ag Spray 200	3	
4	Hose-Ø.75 ID AG Spray 200	Hose, Ø.750 ID Ag Spray 200	1	
5	NLNUT-0.250-20SS	Nut, Nylock 1/4"-20-SS	4	
6	T0051543	Hose Barb 3/4" MPT x 3/8" HB	1	
7	T0051555	Mount Fertilizer Manifold	1	
8	T0051557	Nipple 3/4" Short	1	
9	T0051558	Tee 3/4" Threaded	2	
10	T0051641	3/4" MPT x 3/8" HB Elbow	2	
11	T0051512	3/4" MPT x 3/4" HB	1	
12	UB-0.25X1.5X2.8-RSS	UBolt-0.2500x1.50x2.75-RB-SS	2	

Note:

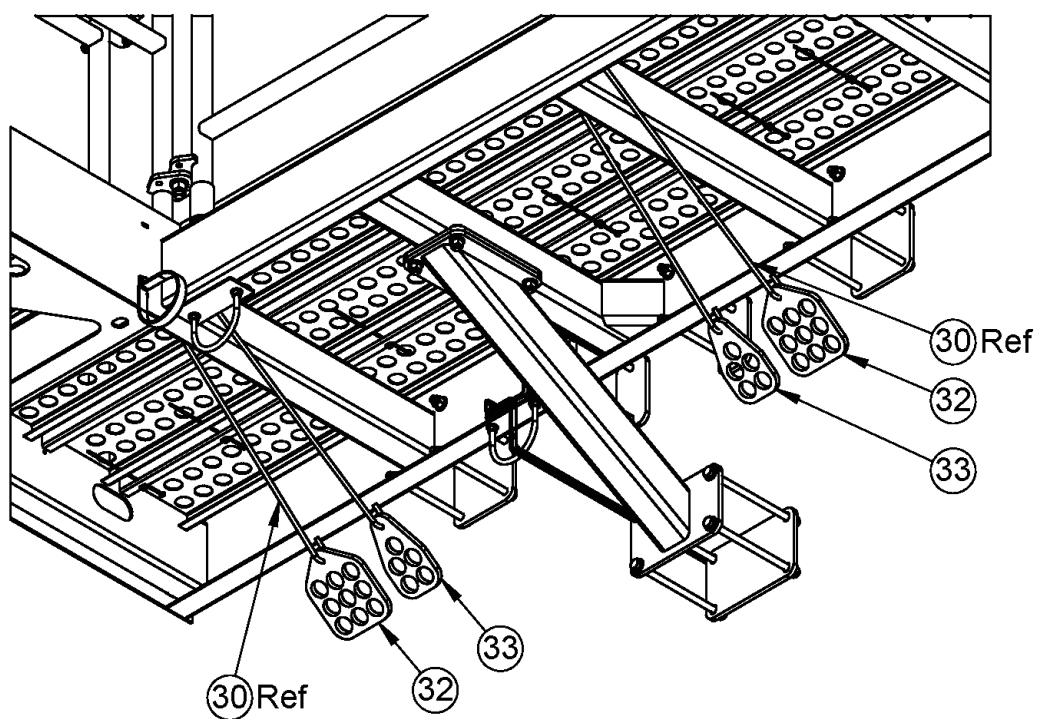
1. PTS=Apply Pipe Thread Sealant, Use Rectorseal #21 or Equivalent.
2. For item #3, use P/N T0051674 Hose-Ø3/8 AG Spray 200 (100' Roll)
3. For item #4, use P/N T0051957 Hose-Ø3/4 AG Spray 200 (100' Roll)



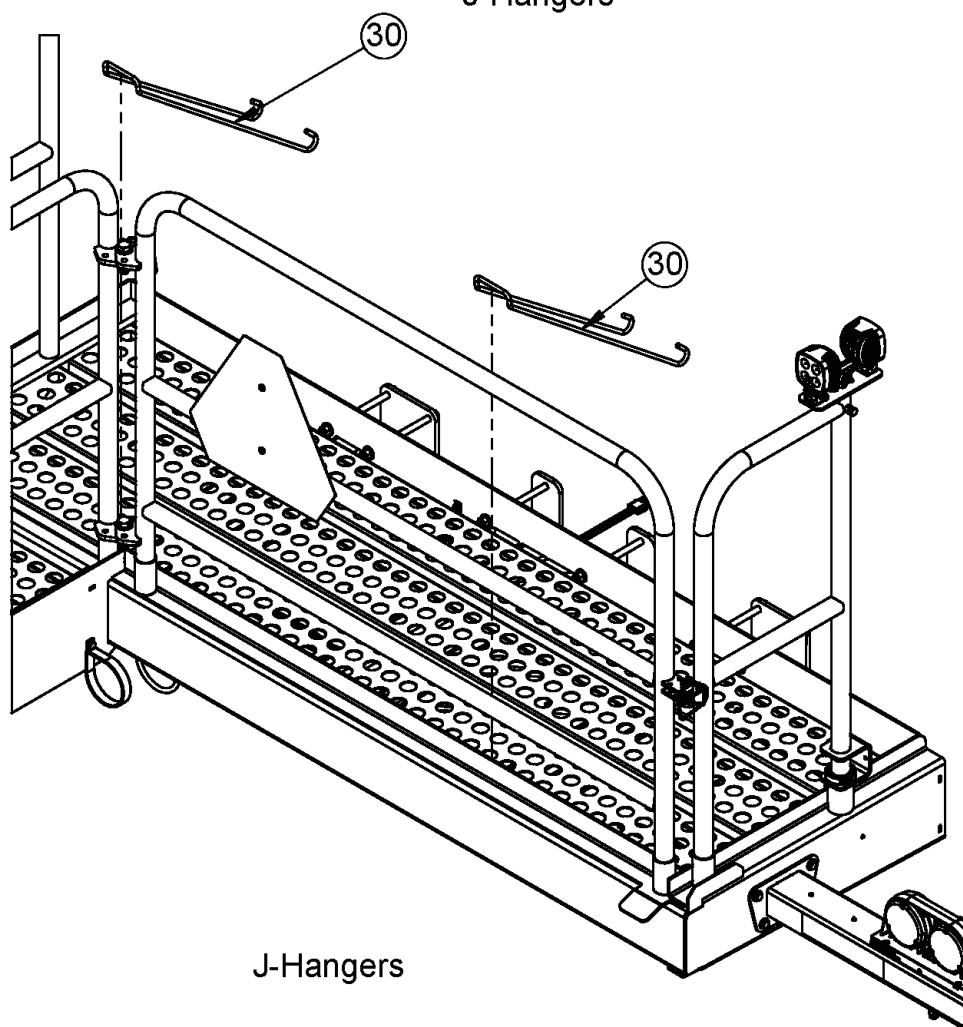
TA01748 Assy, Ladder Platform				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	CBLTIEMT-.256- 276-HL	Assy,CableTie Mnt .031-.276 PT	4	
2	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	5	
3	FW-SAE-0.375SS	Washer, Flat SAE 3/8" SS	12	
4	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	40	
5	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	8	
6	FW-SAE-#10C	Washer, Flat SAE #10 CZ	4	
7	HB-0.250-20X0.75Y8	Bolt, Hex Hd 1/4-20x3/4-YZ8	1	
8	HB-0.250-20X1.00Y8	Bolt, Hex Hd 1/4-20x1-YZ8	2	
9	HB-0.500-13X8.00Y8	Bolt, Hex Hd 1/2-13x8 YZ8	12	
10	HB-0.500-13X9.00Y8	Bolt, Hex Hd 1/2-13x9 YZ8	4	
11	HB-0.625-11X1.75Y8	Bolt, Hex Head-5/8-11x1.75-YZ8	4	
12	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
13	HB-10-24X0.75C2	Bolt,HexHd 10-24x3/4 CI Zc Gr2	4	
14	HNUT-0.375-16SS	Nut, Hex 3/8-16 SS	6	
15	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	3	
16	NLNUT-0.375-16SS	Nut, Nylock -3/8"-16-SS	6	
17	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	17	
18	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	20	
19	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	6	
20	NLNUT-10-24C	Nut, Nylock 10-24 CZ2	4	
21	T0050854	Anti Rotation Insert	6	
22	T0051589	Decal, Warning-Chemical Hazard	1	
23	T0051596	Decal, Warning - Ladder Lowering	1	
24	T0051729	Decal, Reflector,Yellow-2x9	2	
25	T0052167	Cap, Tube Ø1.50 Vinyl	3	
26	T0052227	Latch,Flush Fngr Pull Slm 25#	1	
27	T0052241	Plate, Ladder Attachment	2	
28	T0052242	Plate, Ladder Attach	2	
29	T0052291	Decal, Ladder Platform Lights	2	
30	T0052570	J Hanger, Double Straight	2	
31	T0052571	Seed Hose Hanger, Stub Arm	2	
32	T0052572	Seed Hose Hanger, Middle	2	
33	T0052573	Seed Hose Hanger, Middle Fr	2	
34	TA00678	Assy, SMV Sign	1	
35	TA00791	Assy, Lynch Pin & Lanyard	2	
36	TW000753	Wldmnt, Railing Rear Hinged	1	
37	TW000762	Wldmt, Folding Step Ladder	1	
38	TW000877	Wldmnt, Railing Side-RH Rotating	1	
39	UB-0.38X4.0X5.5-RC5	Ubolt, 3/8x4x5-1/2 RC5	3	
40	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	34	
41	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	8	
42	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
43	RN-0.375-16-.15-.31Y	Rivnut, 3/8-16 .150-.312 YZ	5	
44	HB-0.500-13X1.63Y8	Bolt, Hex Hd 1/2-13x1-5/8 YZ8	4	
45	EDGCLP-CBLTIE-.04-.18	Edge Clip, W/CblTie PT.04-.18	10	
46	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	10	
47	SFTCOLLAR-1.500BO	Collar, Shaft 1-1/2 Blck Oxide	1	
48	TW000917	Wldmt. Platform Stairs	1	
49	TW000931	Wldmt, Platform Strut	1	
50	TA00996	Harness, Bulk Fill Lights	1	
51	TA01247	Assy, Light Arm Extension	2	
52	TW001369	Wldmt, Ladder Platform	1	
53	391062A1	Switch, On/Off	1	
54	TA01812	Assy, LH LED Taillight	1	
55	TA01813	Assy, RH LED Taillight	1	
56	PCLMP-4.000x2.56	Clmp, Cus Pipe Ø4x2-9/16	1	
57	TA01743	Assy, Air Compressor	1	
58	T0055786	Plate, Ladder Wldmt Bolt	1	

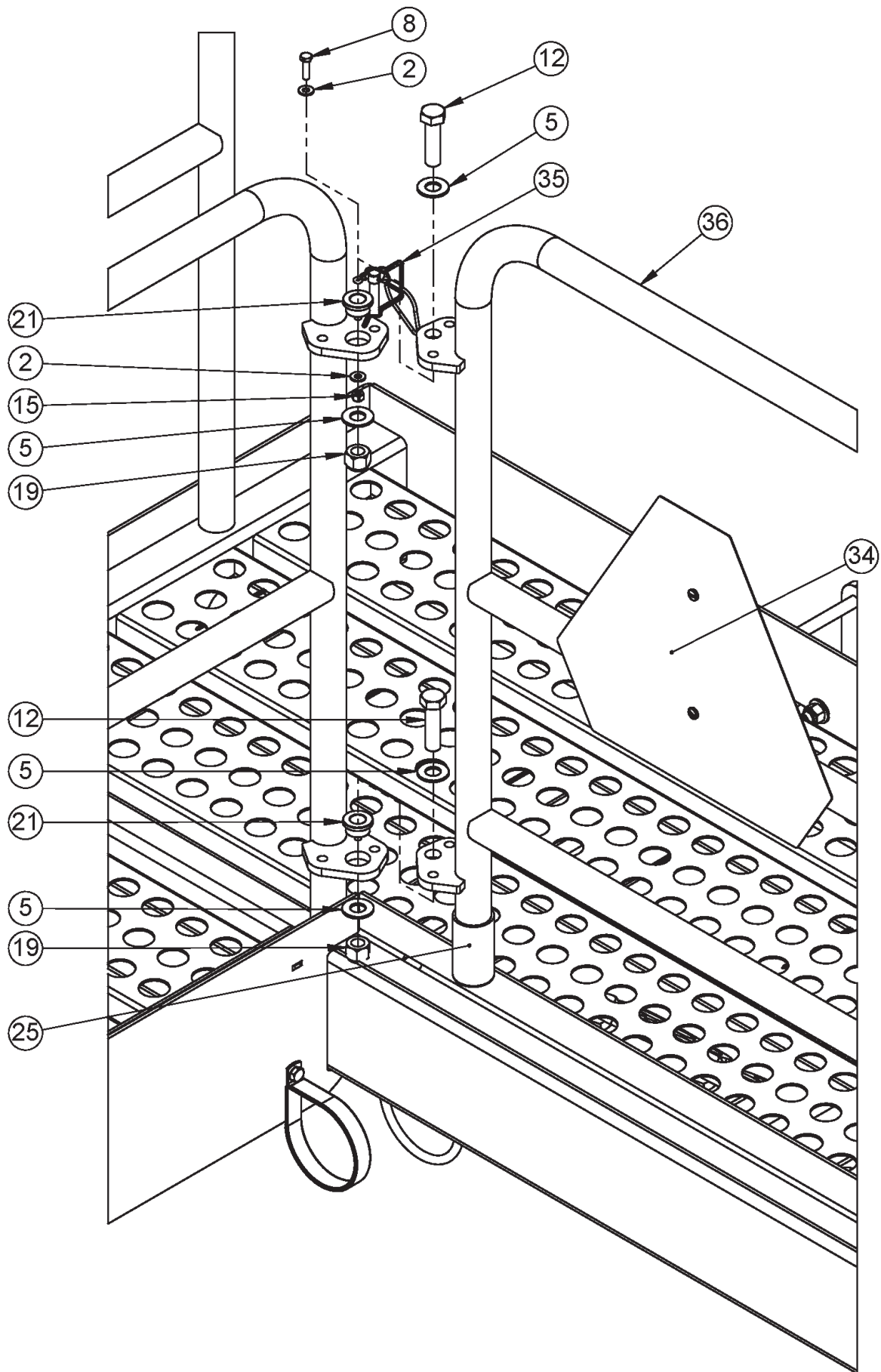


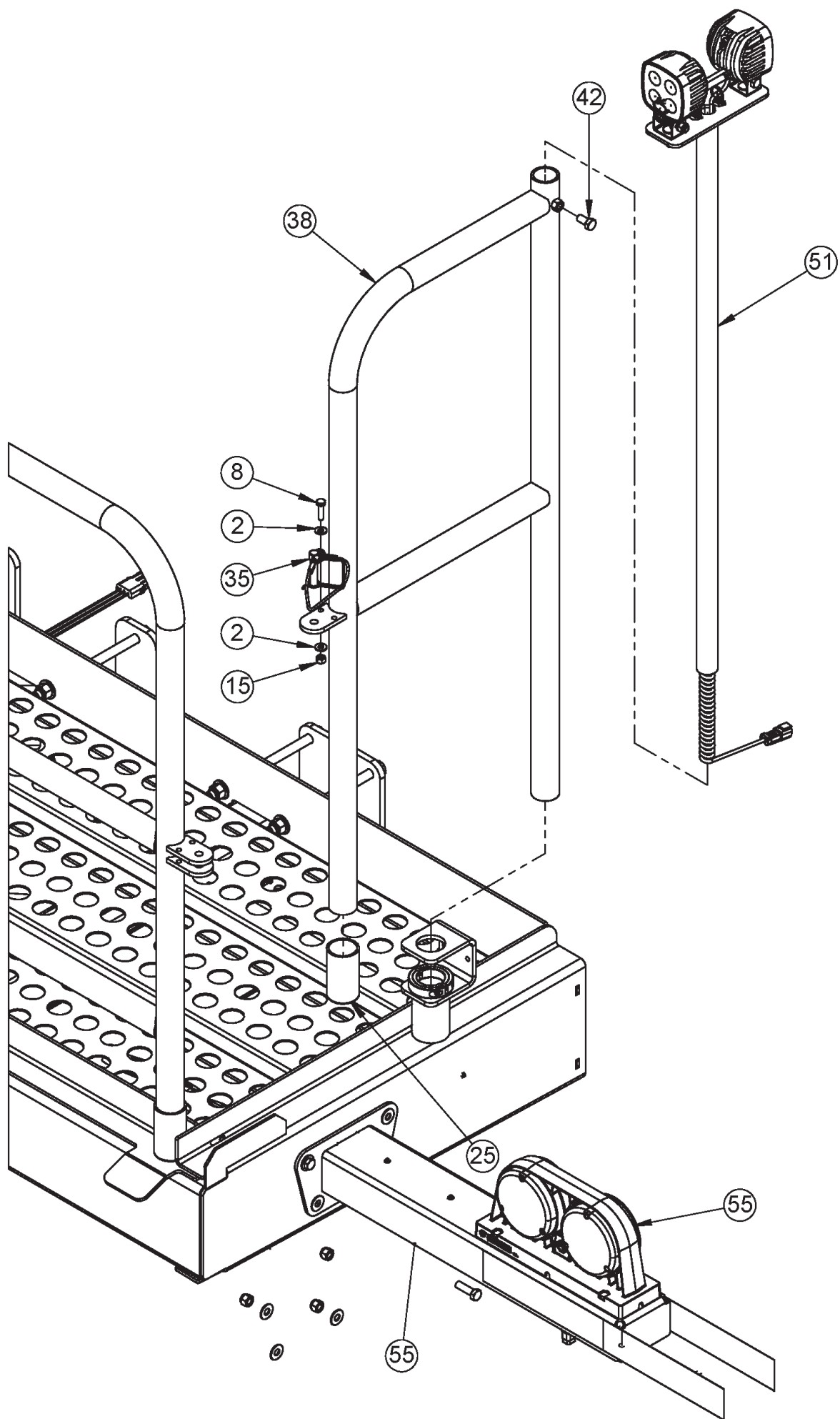
Platform Mounting

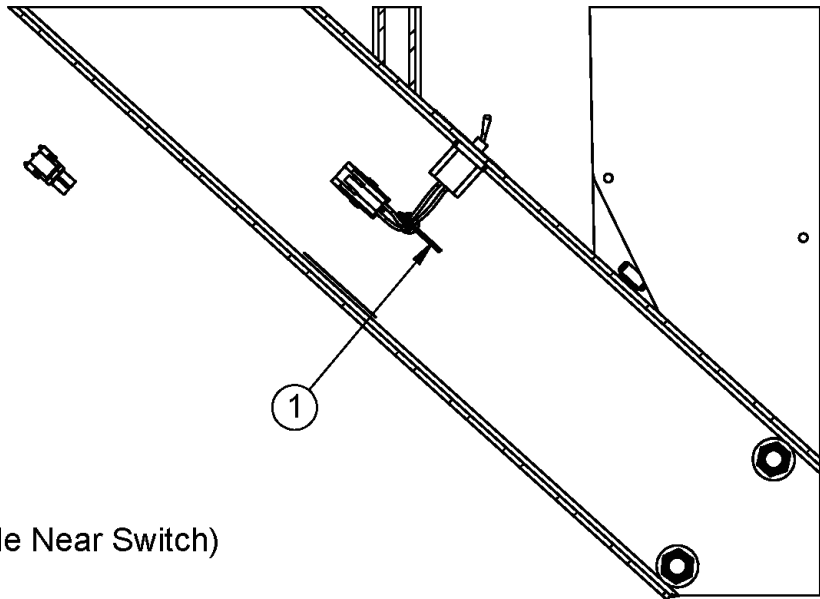


J-Hangers

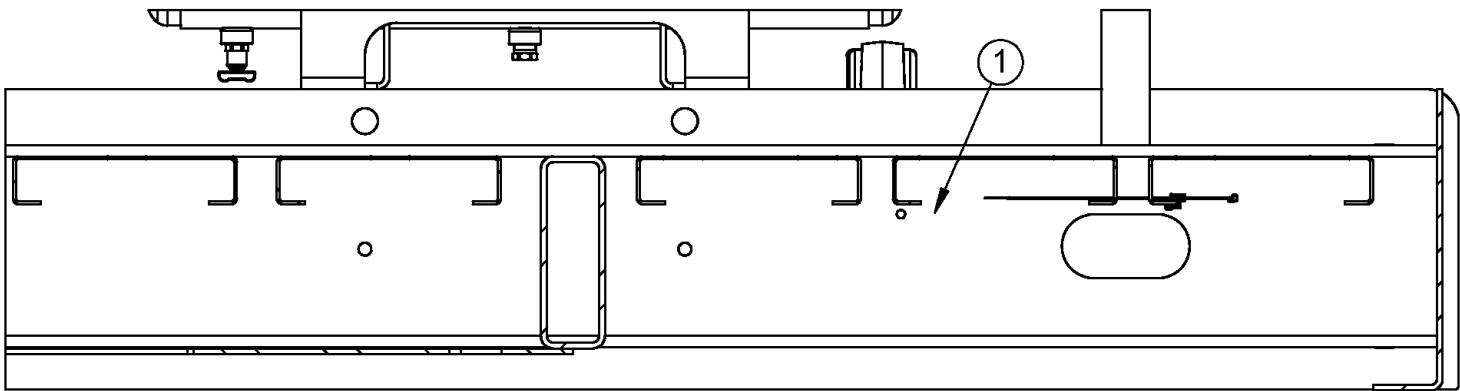




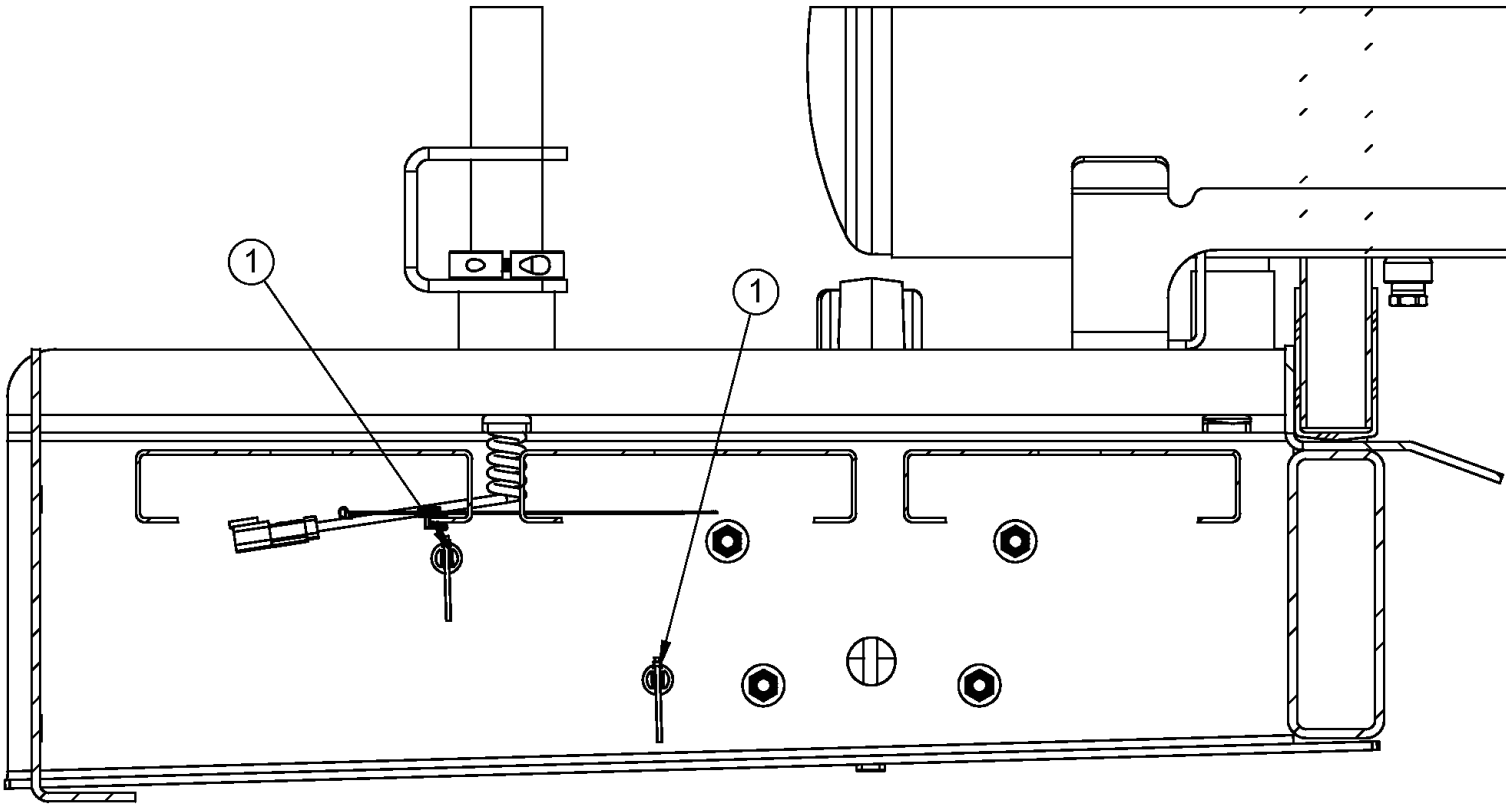




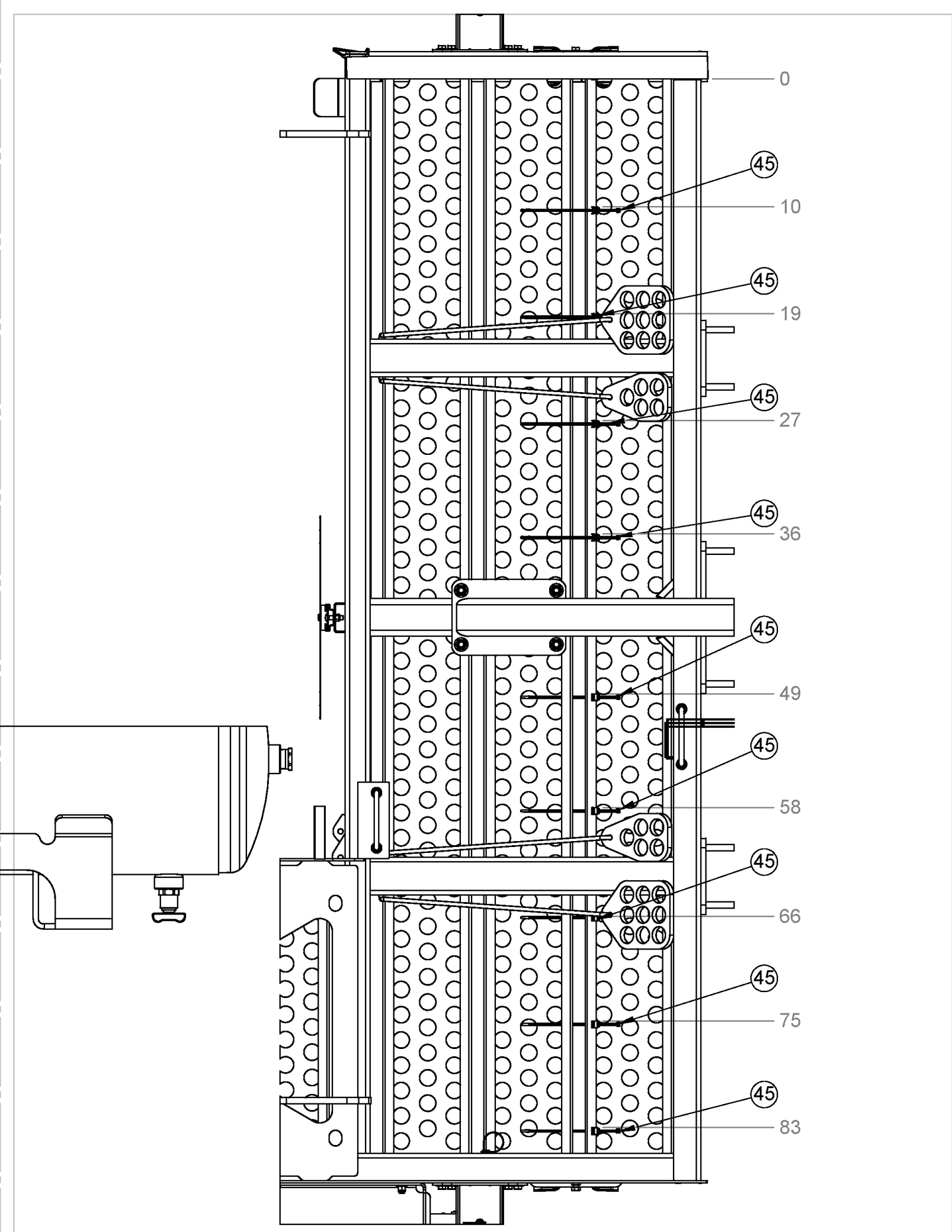
Cable Tie Mount Location (Left Side Near Switch)

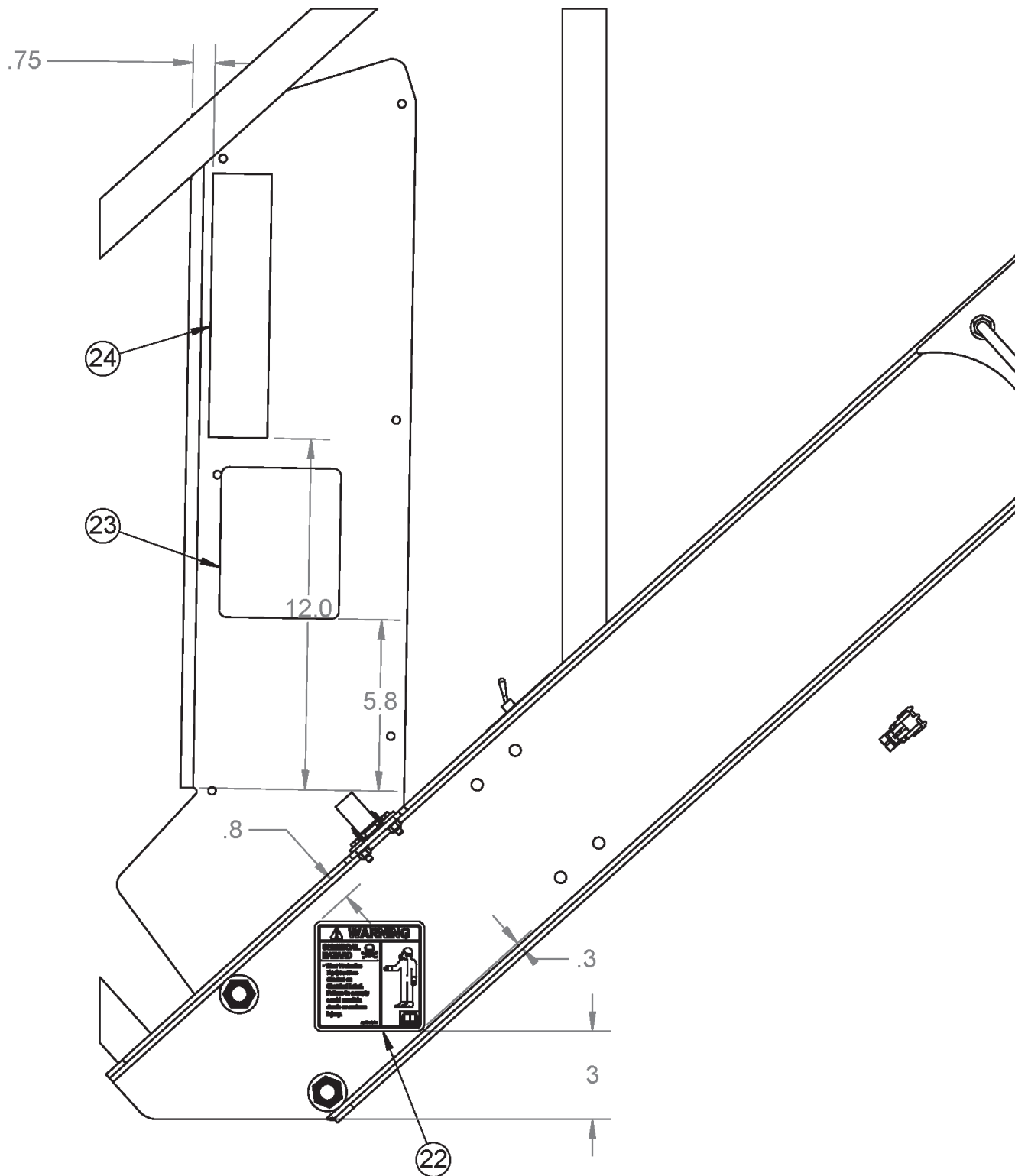


Cable Tie Mount Location (Left Side Looking Outwards)

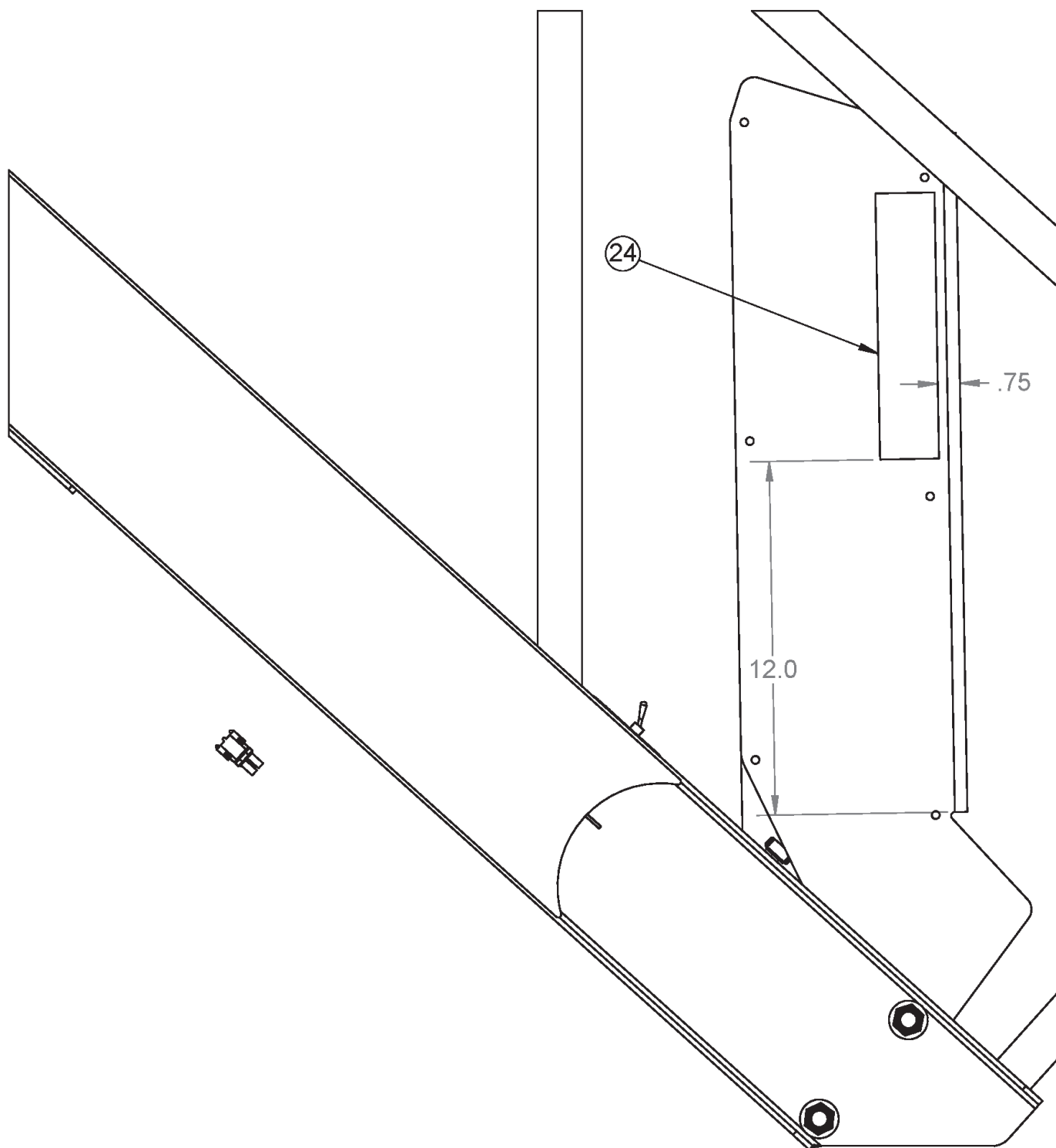


Cable Tie Mount Locations (Right Side, Looking Outward)

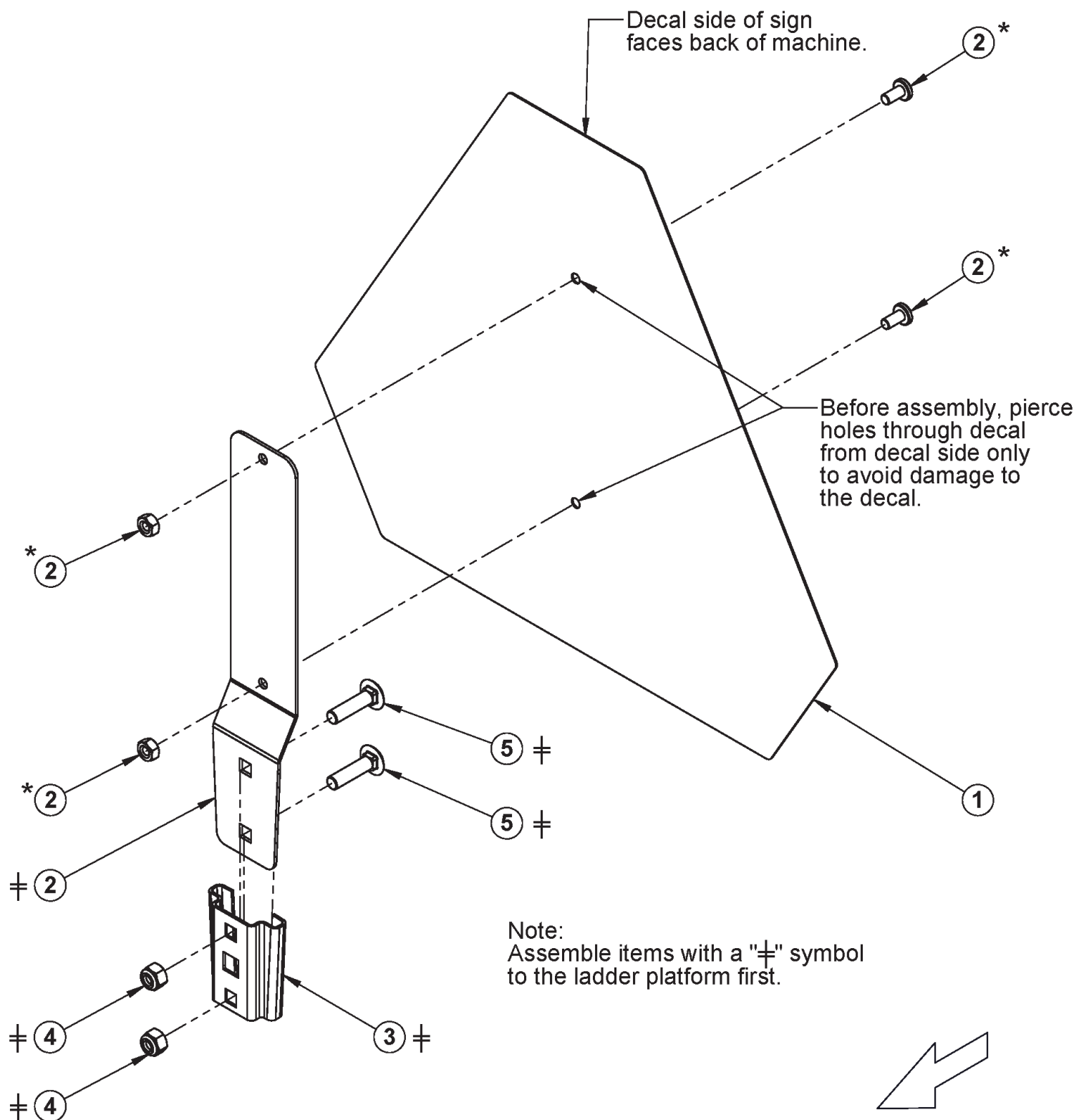




Right Hand Ladder View



Left Hand Ladder View

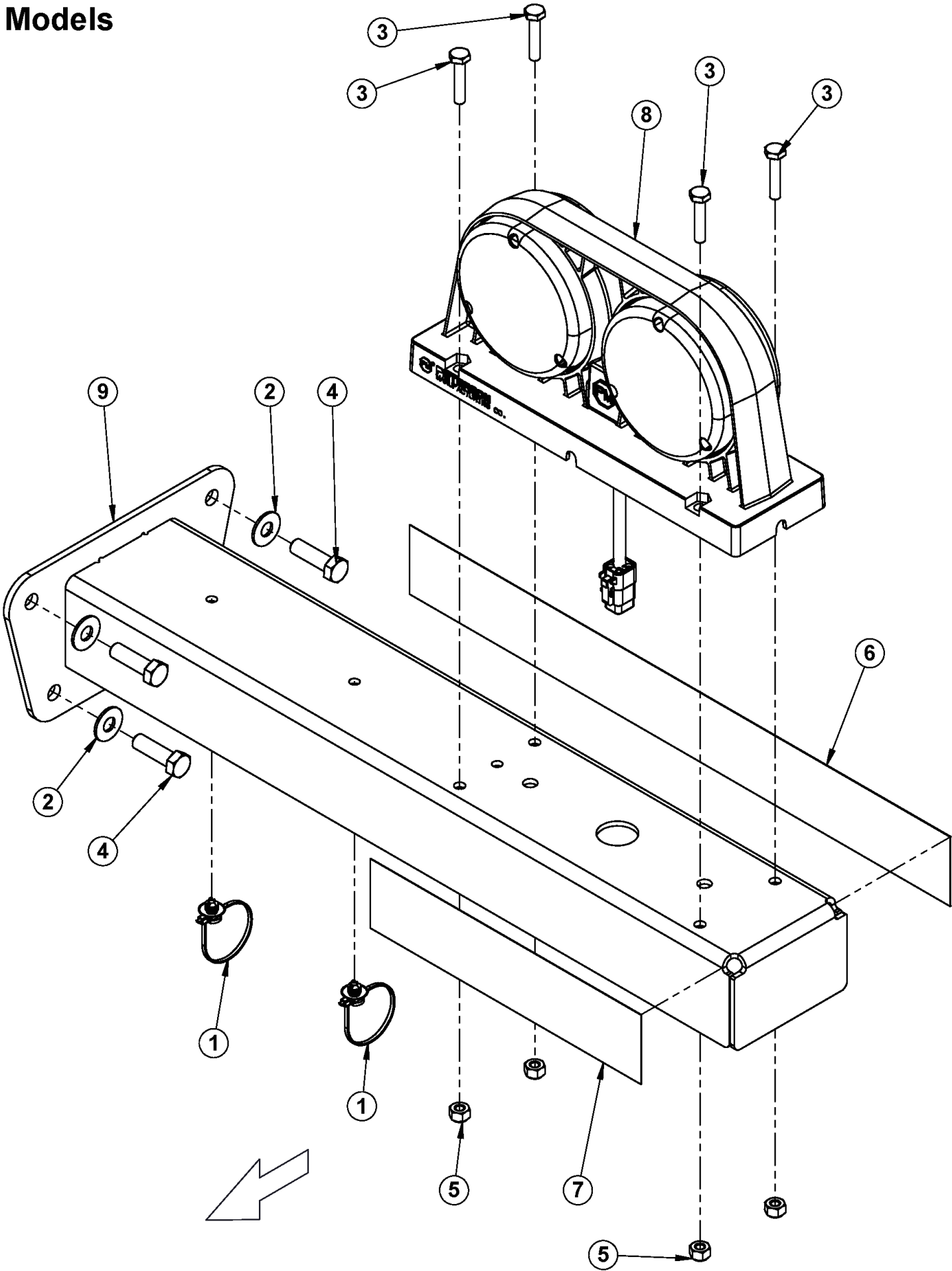


TA00678 Assy, SMV Sign

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA00670	Assy, SMV Plate w Decal	1	
2	TA00671	Assy, SMV Spade Mount	1	
3	T0051519	Receptacle, Female Spade SMV Sign	1	
4	NLNUT-0.313-18Y8	Nut, Nylock 5/16"-18-YZ8	2	
5	CB-0.313-18X1.25C5	RHSNBOLT 5/16-18x1.25-CZ5	2	

* Items marked with an asterisk, are items that are supplied with P/N TA00671.

All Models

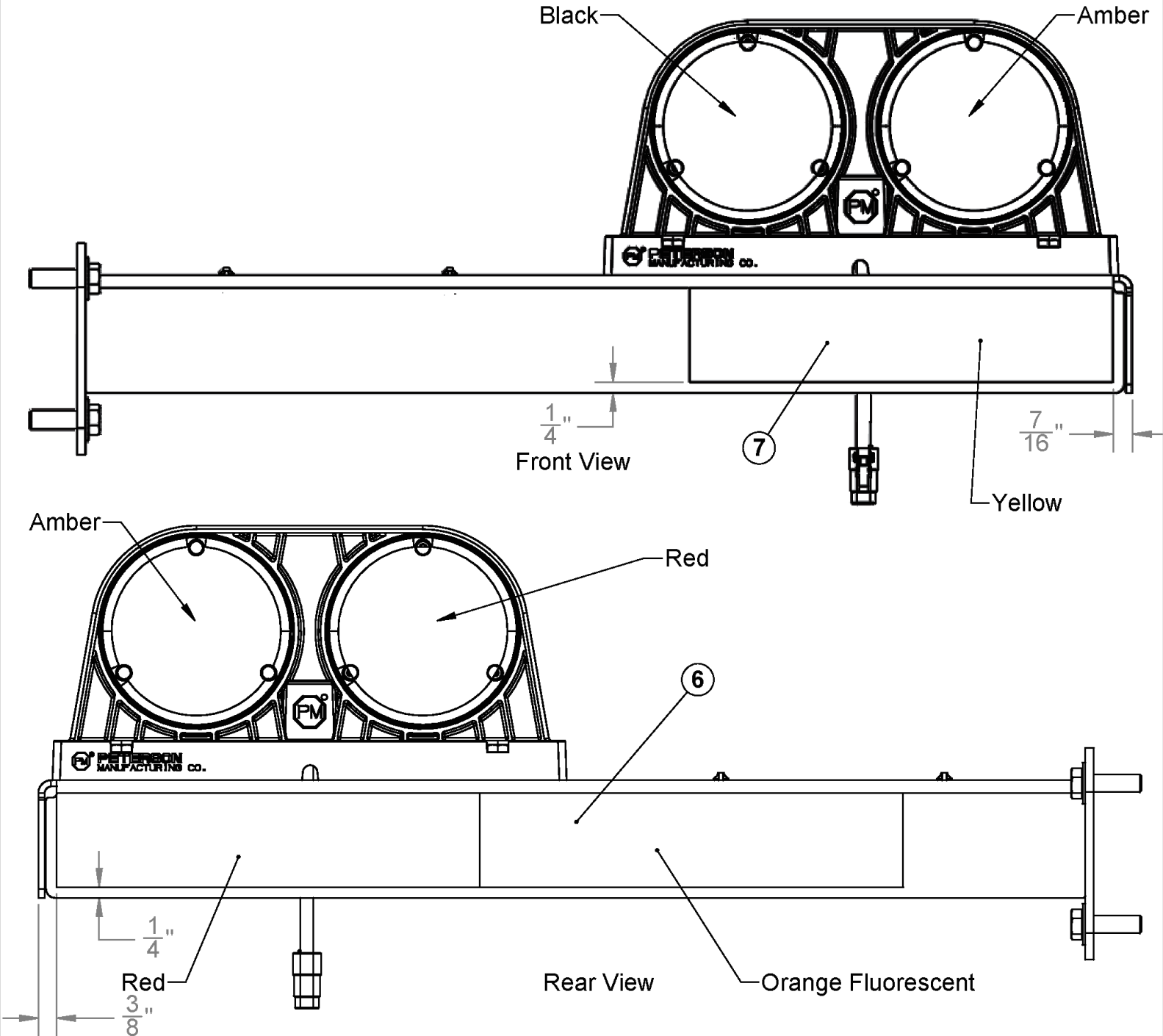


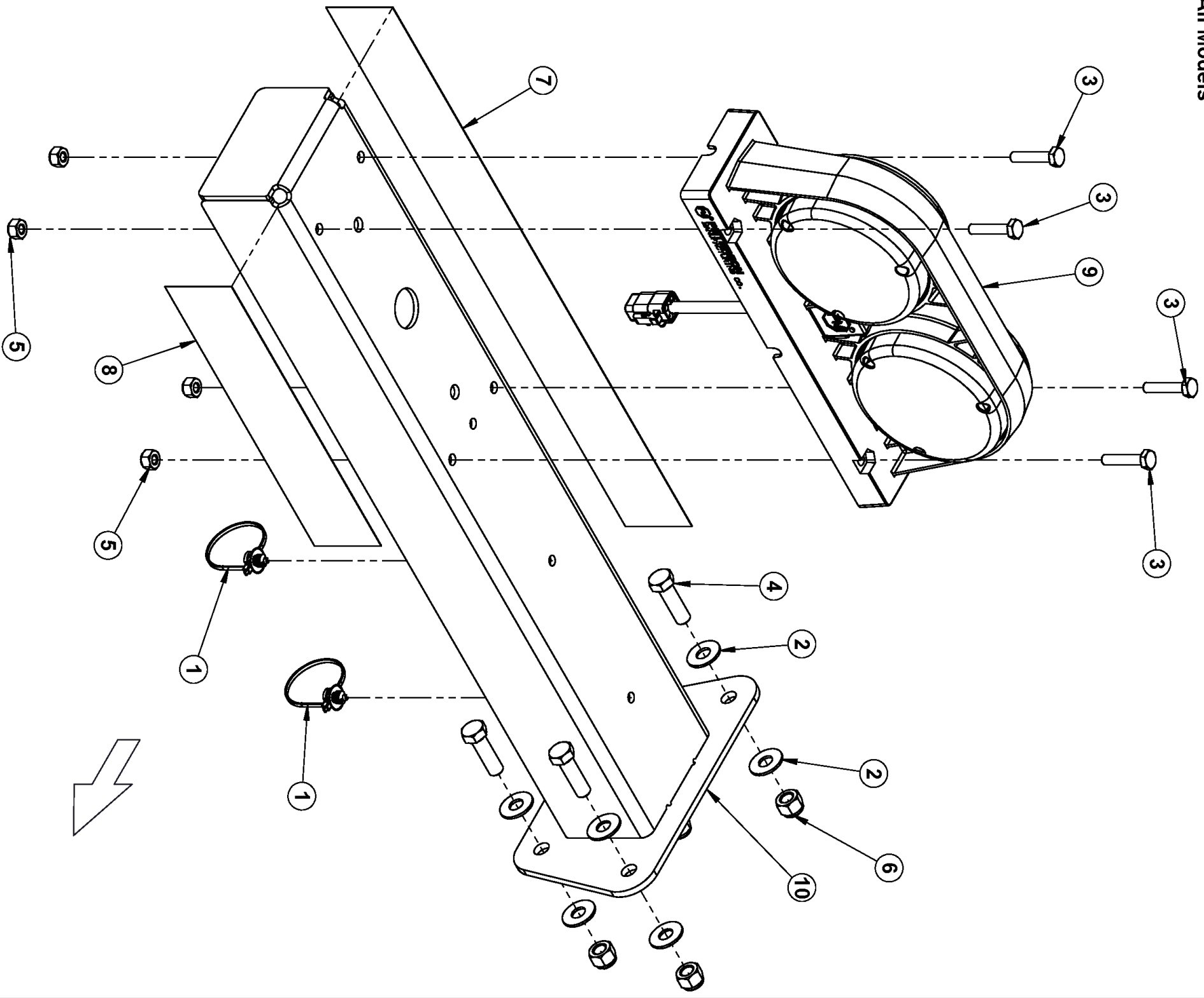
TA01812 Assy, LH LED Taillight

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CBLTIEMT-.256-.276-HL	Assy,CableTie Mnt .031-.276 PT	2	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	4	
3	HB-0.250-20X1.25Y8	Bolt, Hex Hd 1/4-20x1-1/4-YZ8	4	
4	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	
5	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	4	
6	T0051727	Decal, Refl Red,Orange-2x18	1	
7	T0051729	Decal, Reflector, Yellow-2x9	1	
8	TA01738	Assy, STT Light LH	1	
9	TW001399	Wldmt, Taillight Mount	1	

Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.



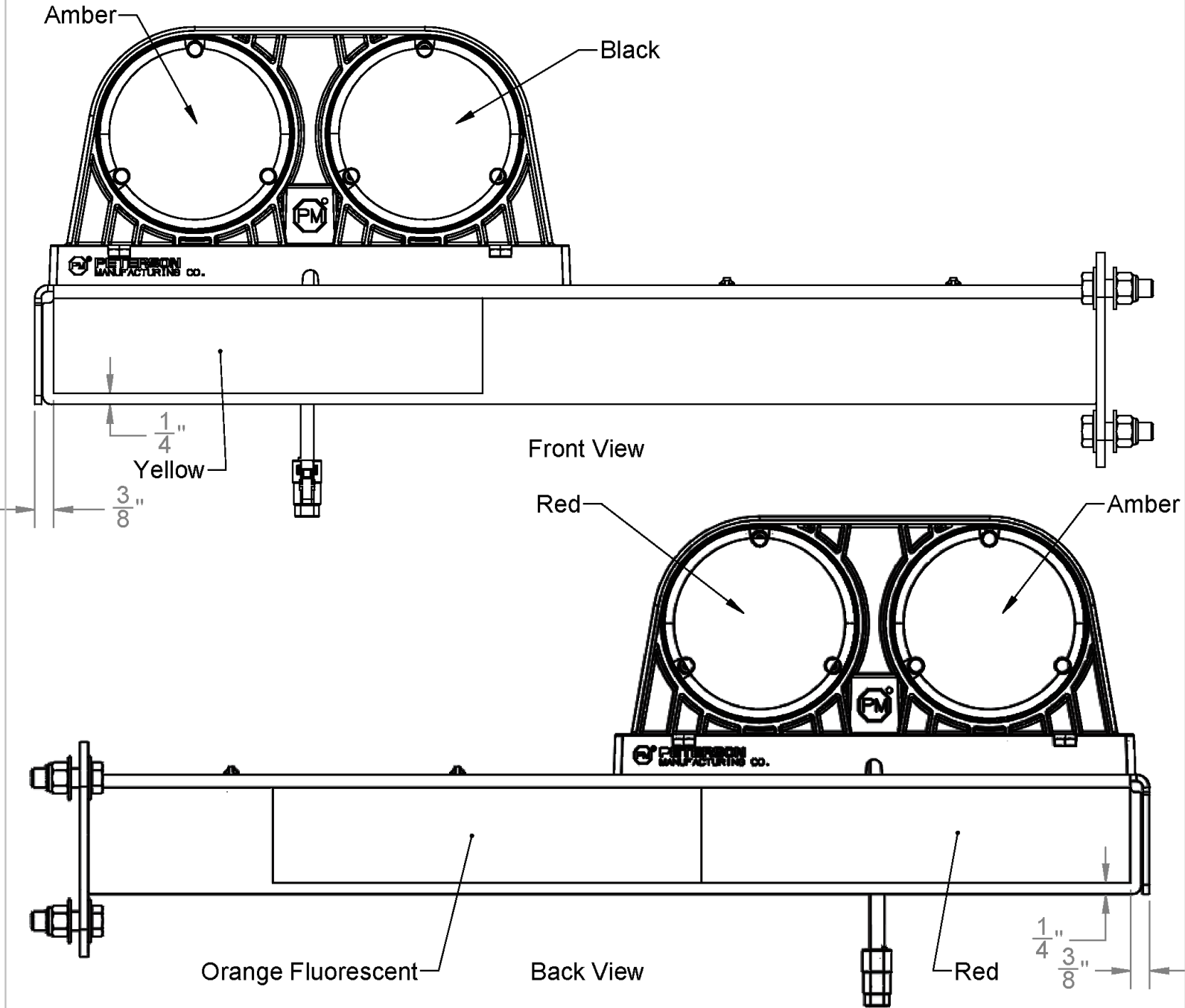


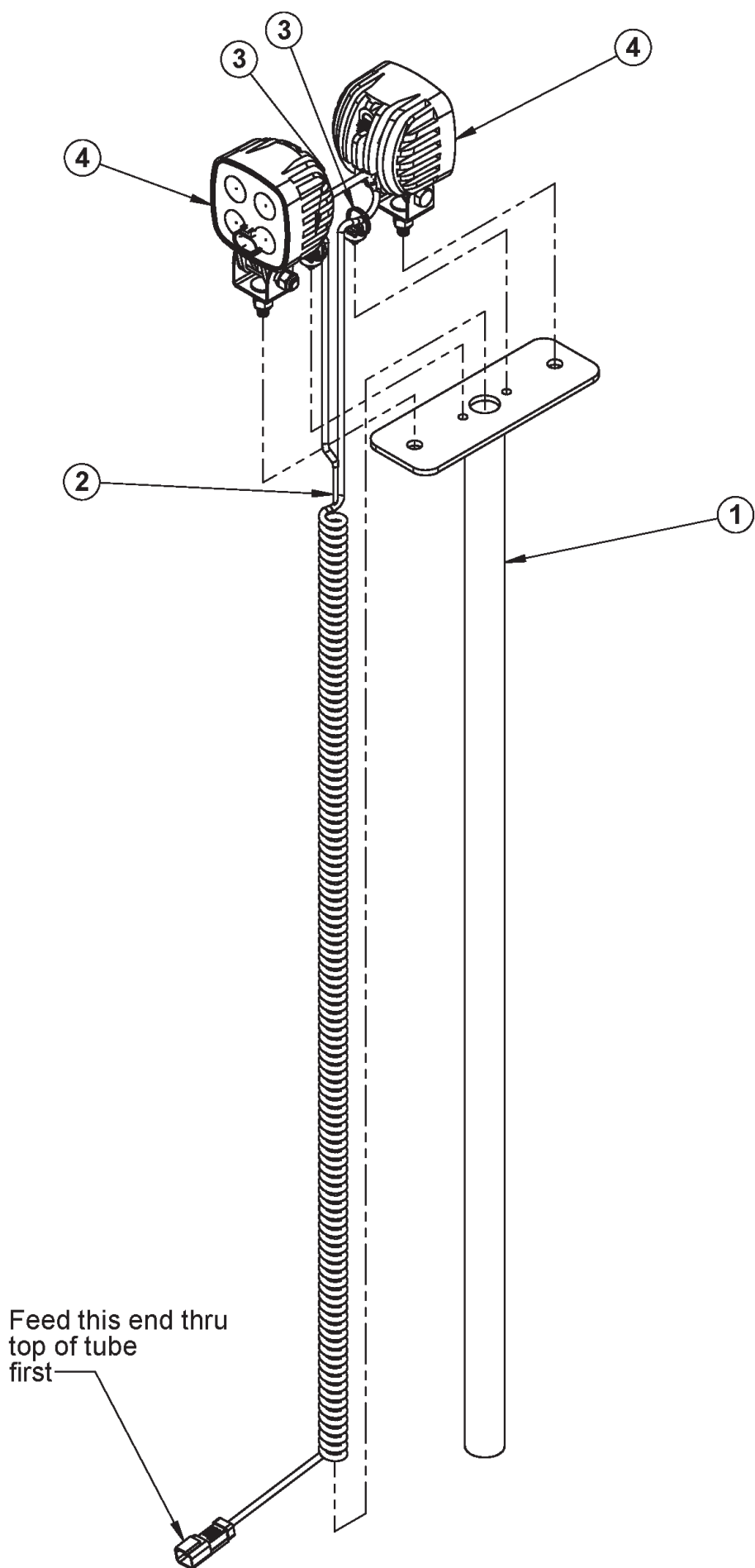
TA01813 Assy, RH LED Taillight

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CBLTIEMT-.256-.276-HL	Assy,CableTie Mnt .031-.276 PT	2	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	8	
3	HB-0.250-20X1.25Y8	Bolt, Hex Hd 1/4-20x1-1/4-YZ8	4	
4	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	
5	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	4	
6	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	4	
7	T0051727	Decal, Refl Red,Orange-2x18	1	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	TA01739	Assy, STT Light RH	1	
10	TW001399	Wldmt, Taillight Mount	1	

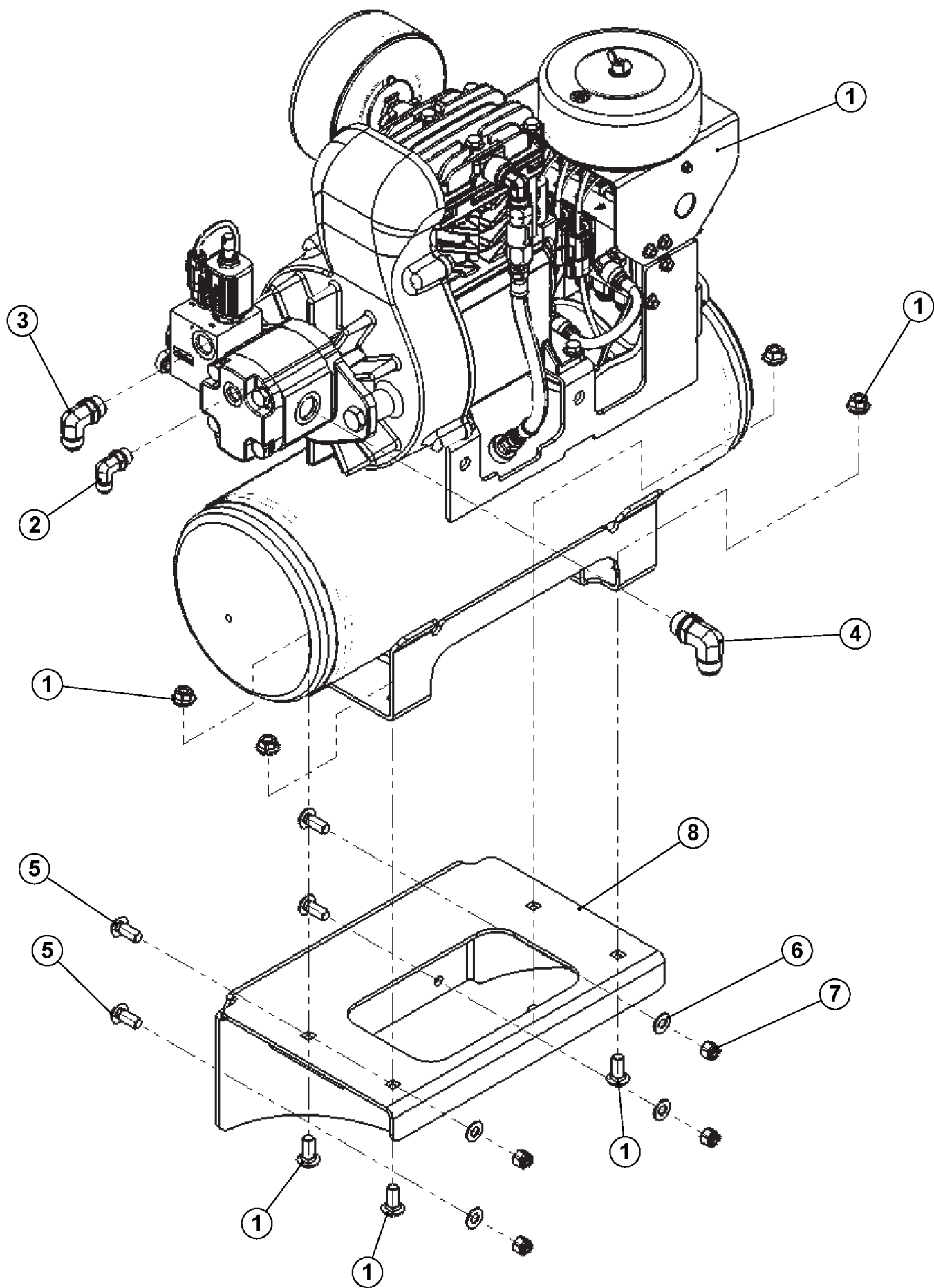
Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.





TA01247 Assy, Light Arm Extension				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW000875	Wldmt, Light Pole Bracket	1	
2	TA00995	Harness, Bulk Fill Light Ext	1	
3	CBLTIEMT-.256-.276-HL	Assy,CableTie Mnt .031-.276 PT	2	
4	TA01737	Assy, Work Light	2	

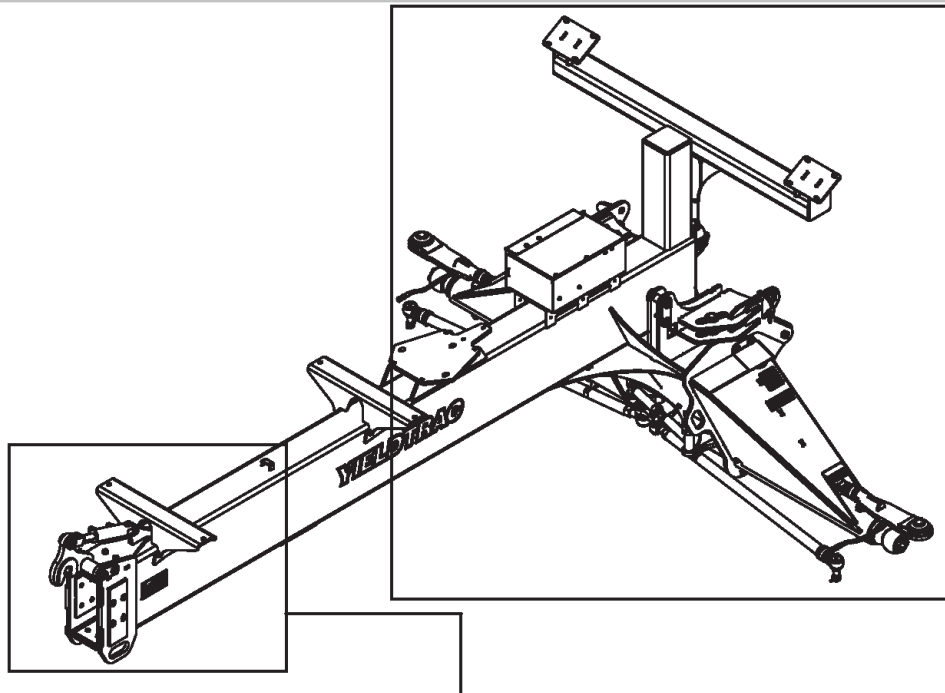


TA01743 Assy, Air Compressor

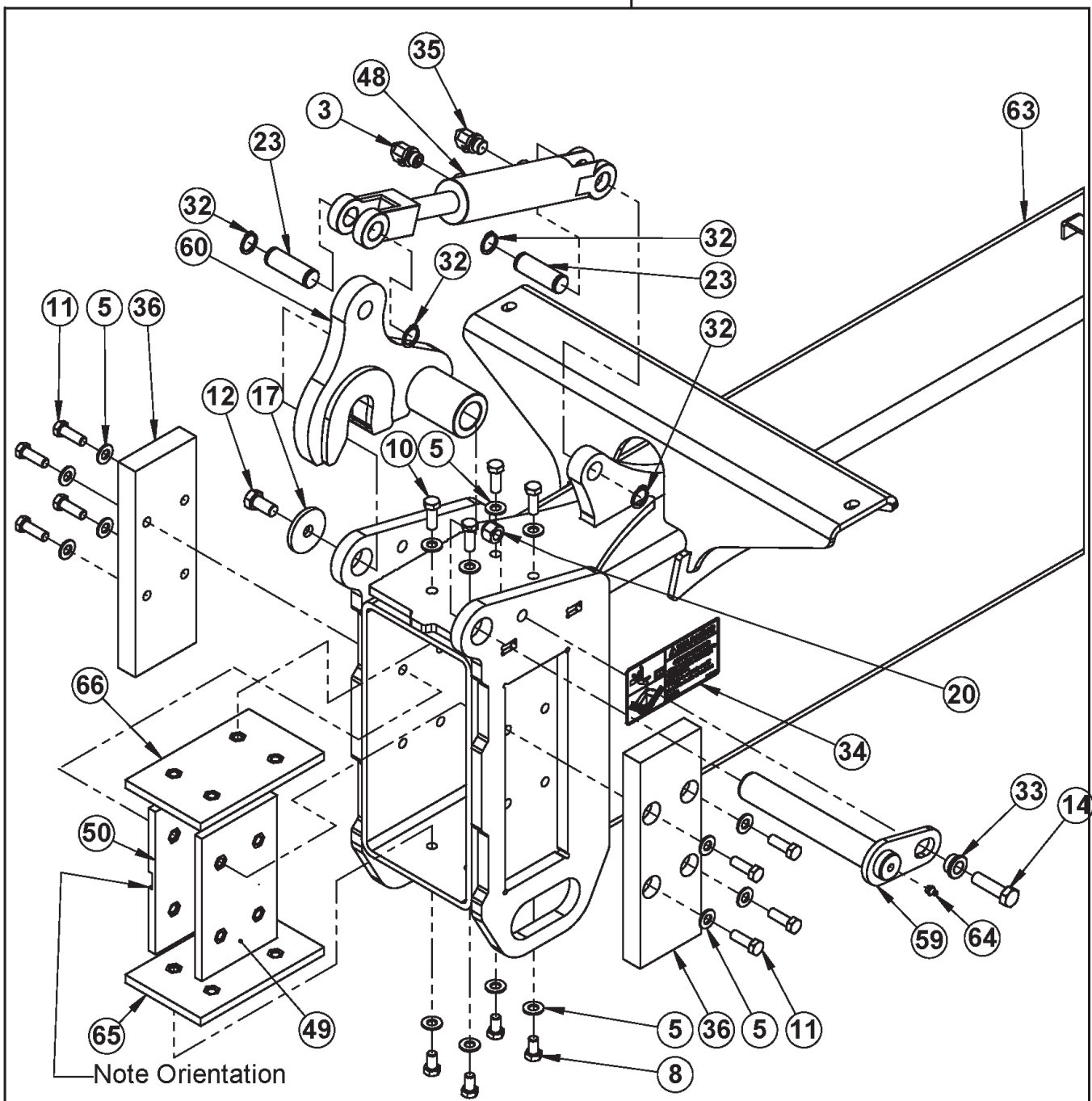
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	48103377		1	
2	AD-06MJ-06MB-90	ADAPTER 06MJ-06MB 90	1	
3	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	1	
4	AD-10MJ-10MB-90	ADAPTER 10MJ-10MB 90	1	
5	CB-0.375-16X1.00Y5	RHSNBOLT 0.375-16x1.00-YZ5	4	
6	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
7	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	4	
8	T0055604	Mount, Compressor	1	

Note:

1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

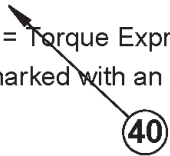


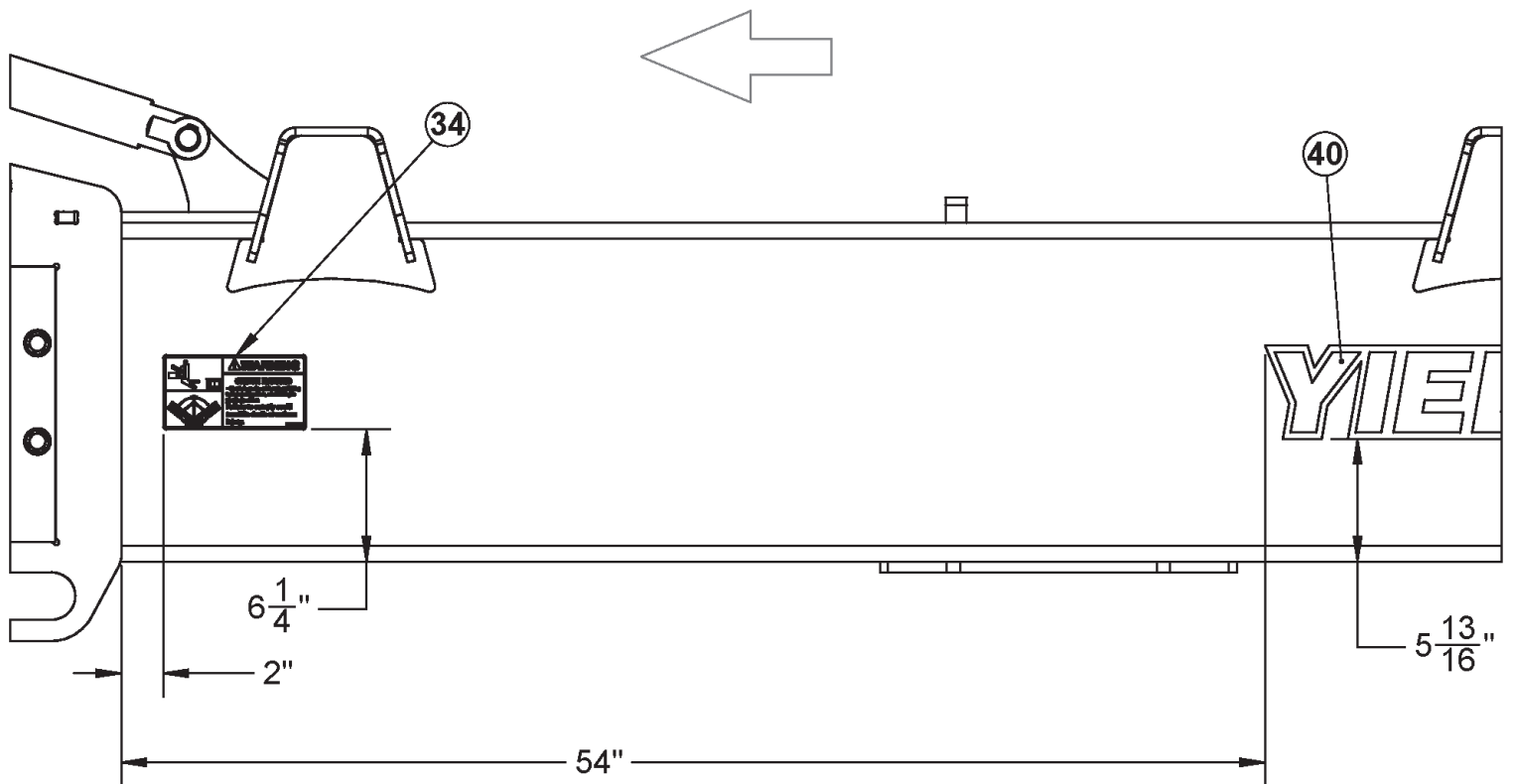
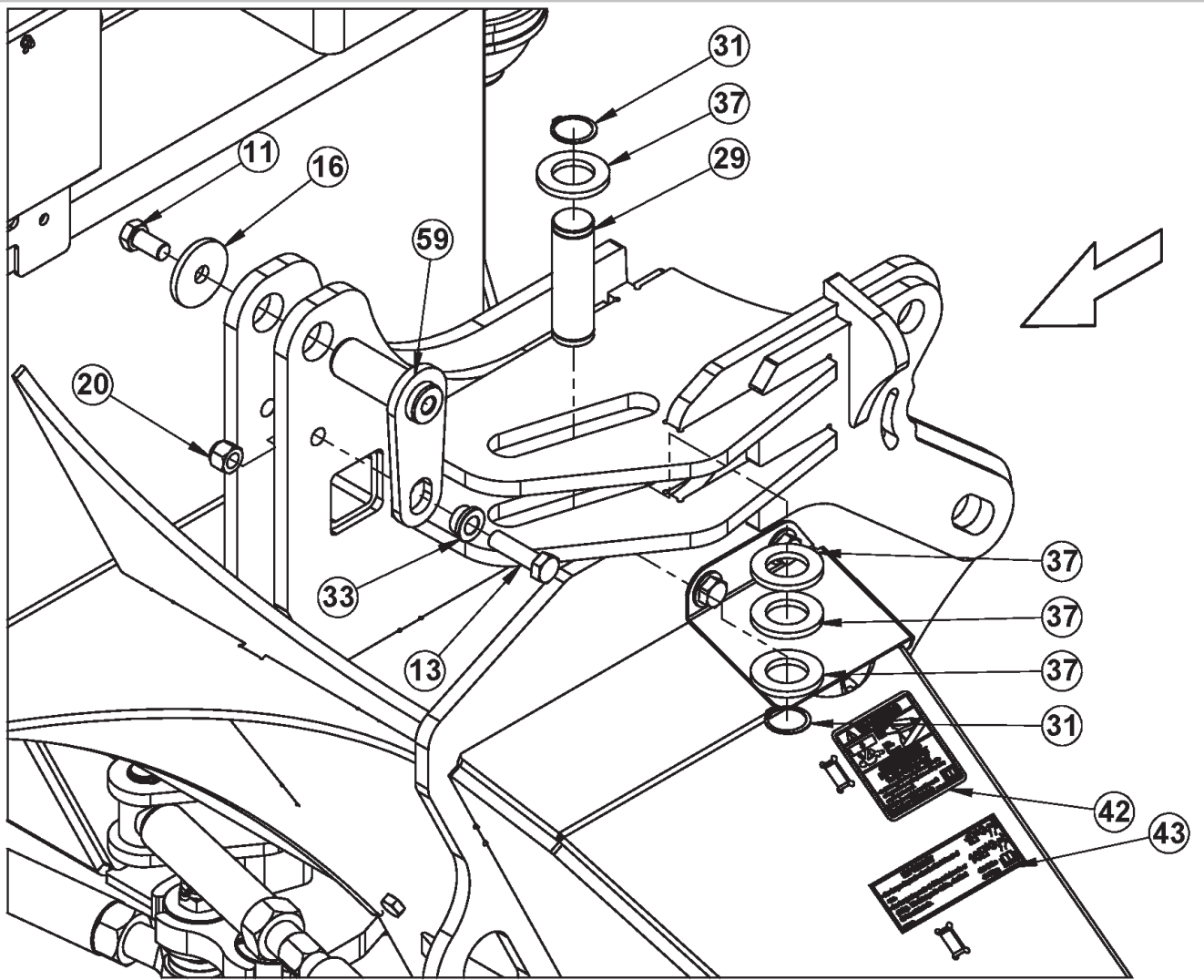
See
Sheets
2,3,4, & 5



TA01757 Assy, 40' Main Frame 120" (Sheet 1 of 5)				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
3	AD-06MJ-08MB-90	ADAPTER 06MJ-08MB 90	1	
5	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	16	
8	HB-0.500-13X0.88Y8	Bolt, Hex Hd 1/2-13x7/8 YZ8	4	
10	HB-0.500-13X1.38Y8	Bolt, Hex Hd 1/2-13x1-3/8 YZ8	4	
11	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	8	
12	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	3	
14	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
17	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	3	
20	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	12	
23	PIN-1.000X2.63Y	PIN-1.000X2.63Y	2	
32	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
33	T0050854	Anti Rotation Insert	6	
34	T0051588	Decal, Warning - Crush Hazard	2	
35	T0052369	ADAPTER 06MJ-08MB 90 W/ORF	1	
36	T0052579	Slider Block	2	
40	T0054236	Decal, Yieldtrac 4.4x33.3	2	
48	TA00632	Cylinder, Hyd 2.00X4.00	1	
49	TA00801	Assy, Slider	1	
50	TA00843	Assy, Slider	1	
59	TW001050	Pin Weldment	1	
60	TW001150	Wldmt, Hitch Latch	1	
63	TW001374	Wldmt, 40' Main Frame (120")	1	
64	ZERK-0.125-27-NPT	Zerk,-1/8-27-NPT	1	
65	TA00801	Assy, Slider	1	
66	TA00801	Assy, Slider	1	

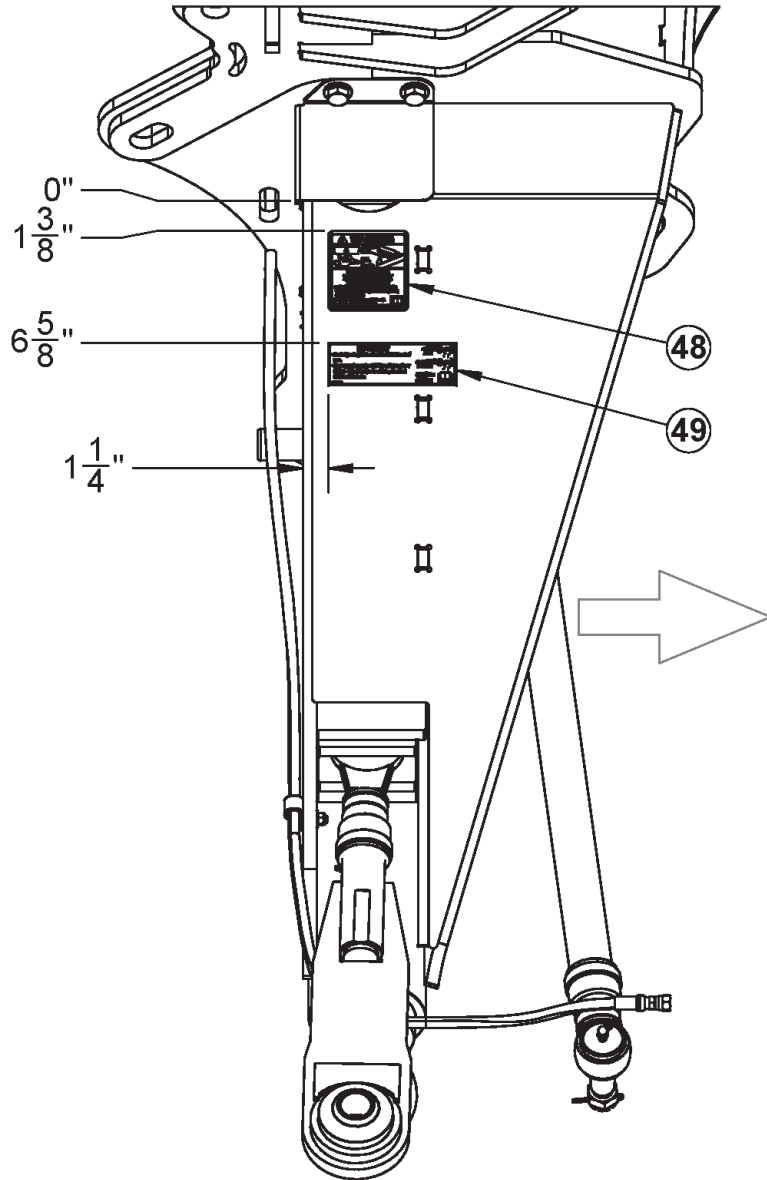
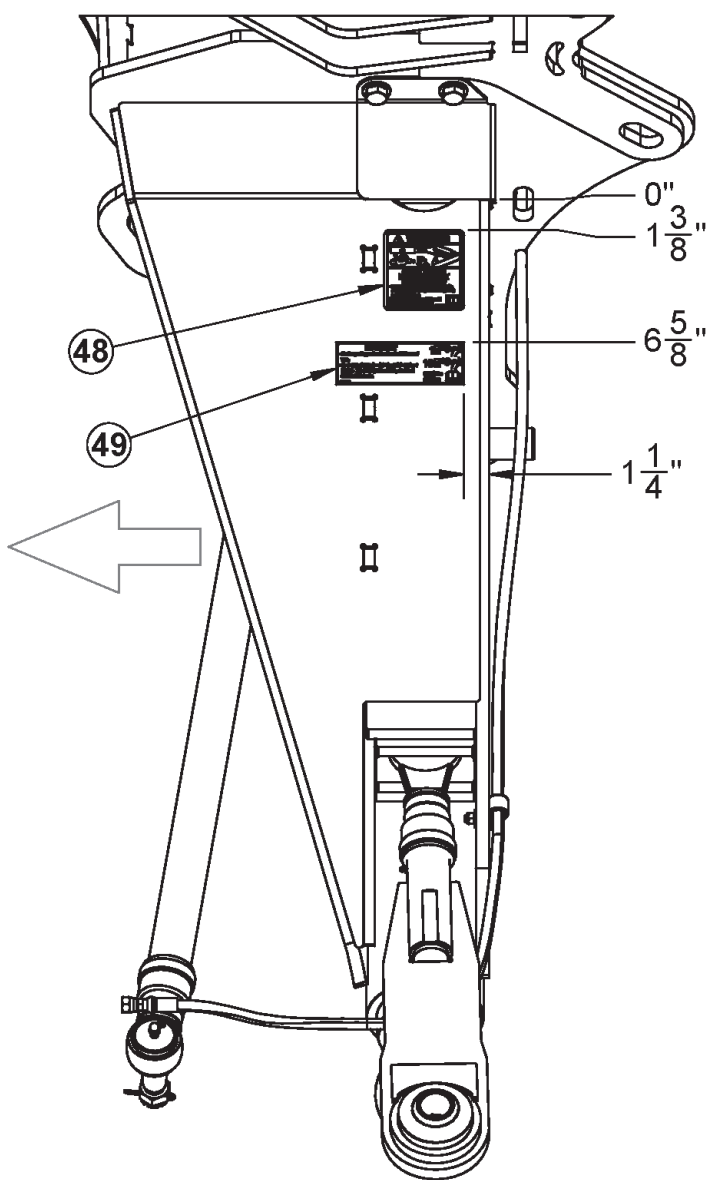
- Note:**
- T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
 - * Items marked with an asterisk are items that are included in that particular part or assembly.

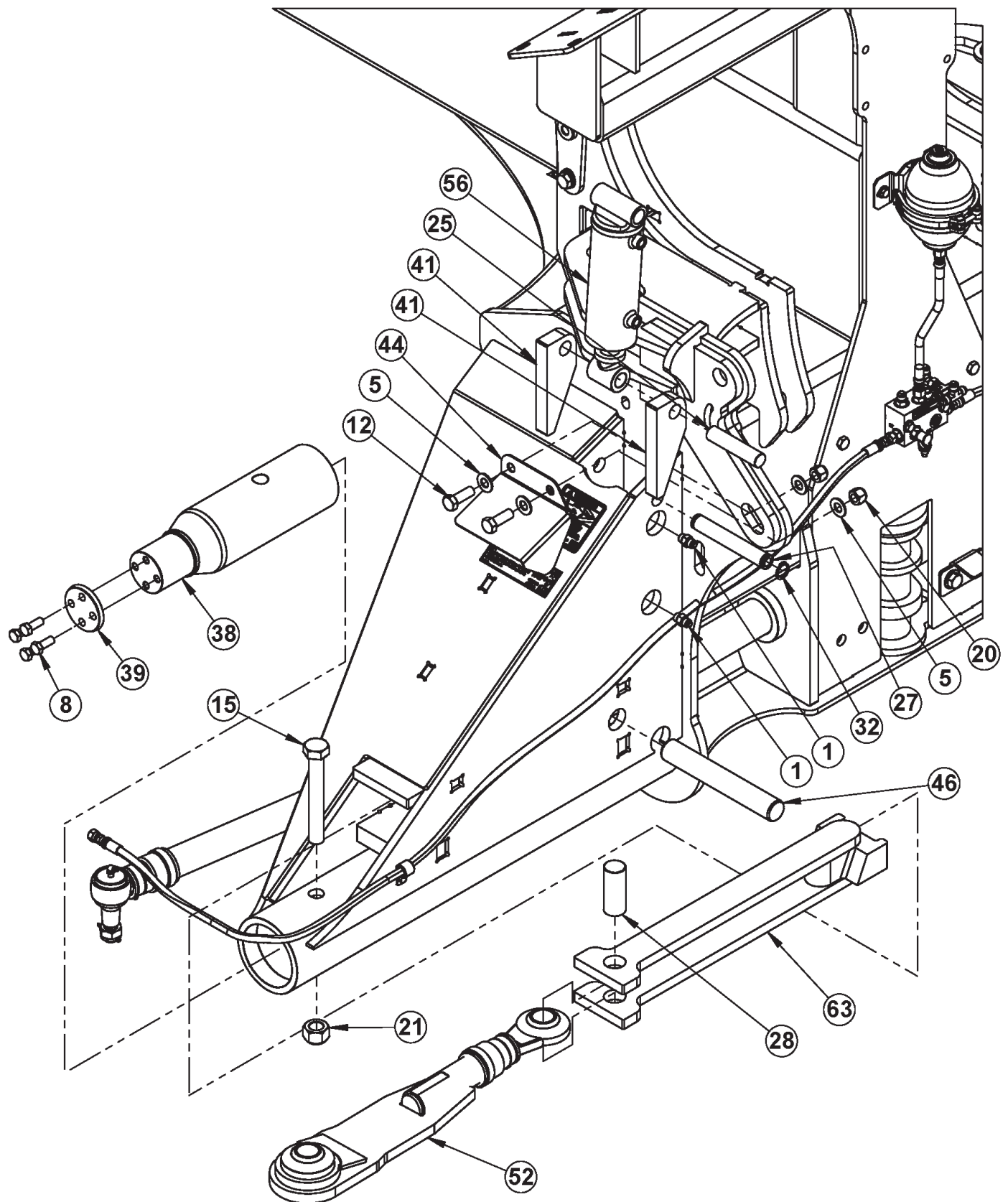




TA01757 Assy, 40' Main Frame 120" (Sheet 2 of 5)

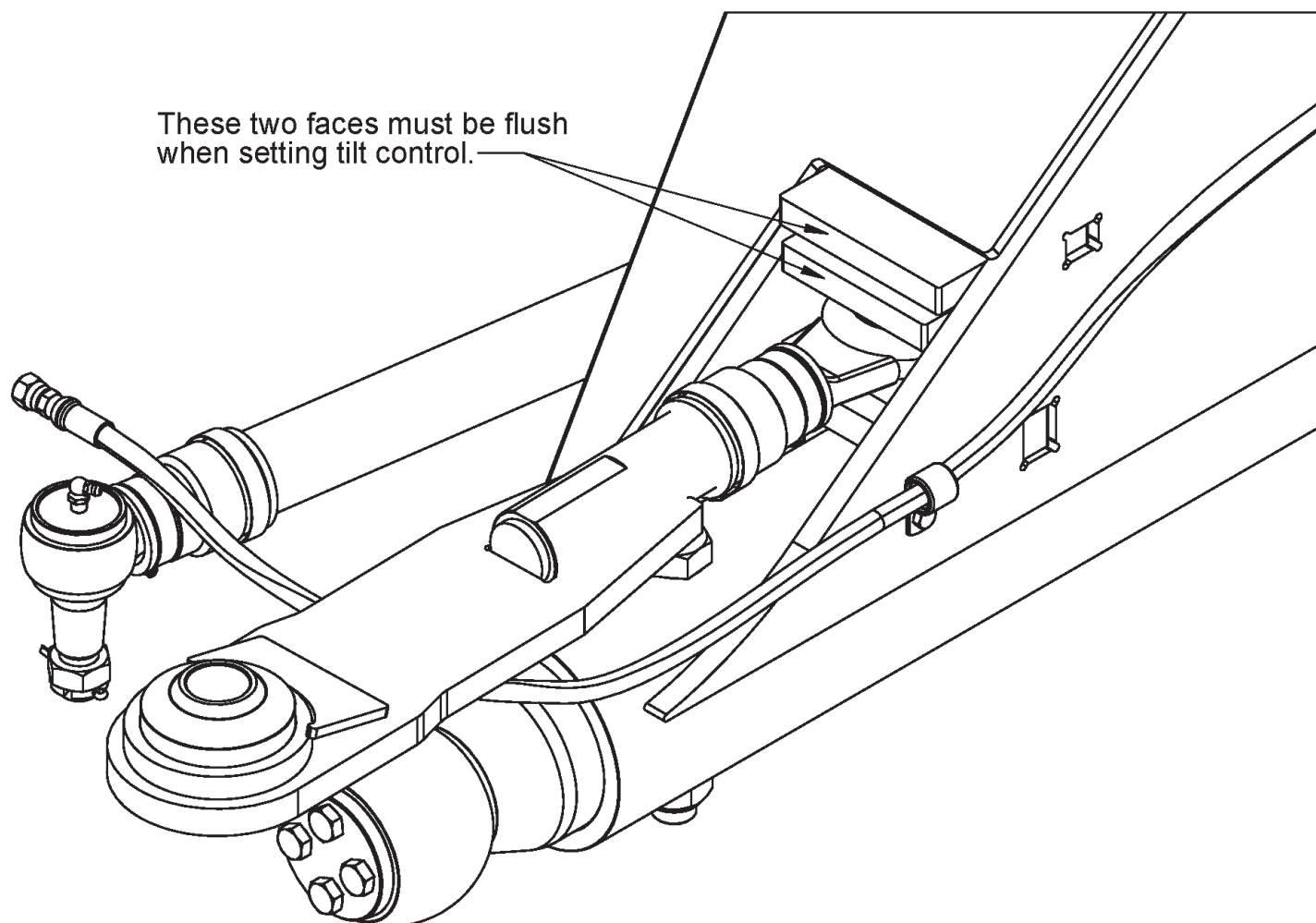
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
11	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	3	
13	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
16	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	3	
20	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	12	
29	PIN-1.438X4.25Y	Pin-1.4375x4.250-YZ	2	
31	SRING-EXT-1.44	1-7/16" External Snap Ring	4	
33	T0050854	Anti Rotation Insert	6	
34	T0051588	Decal, Warning - Crush Hazard	2	
37	T0052610	Washer, Control Link	8	
40	T0054236	Decal, Yieldtrac 4.4x33.3	2	
42	T0054707	Decal, Warn-Crush Haz Mn Lift	2	
43	T0054708	Decal, 320 Lug Torque	2	

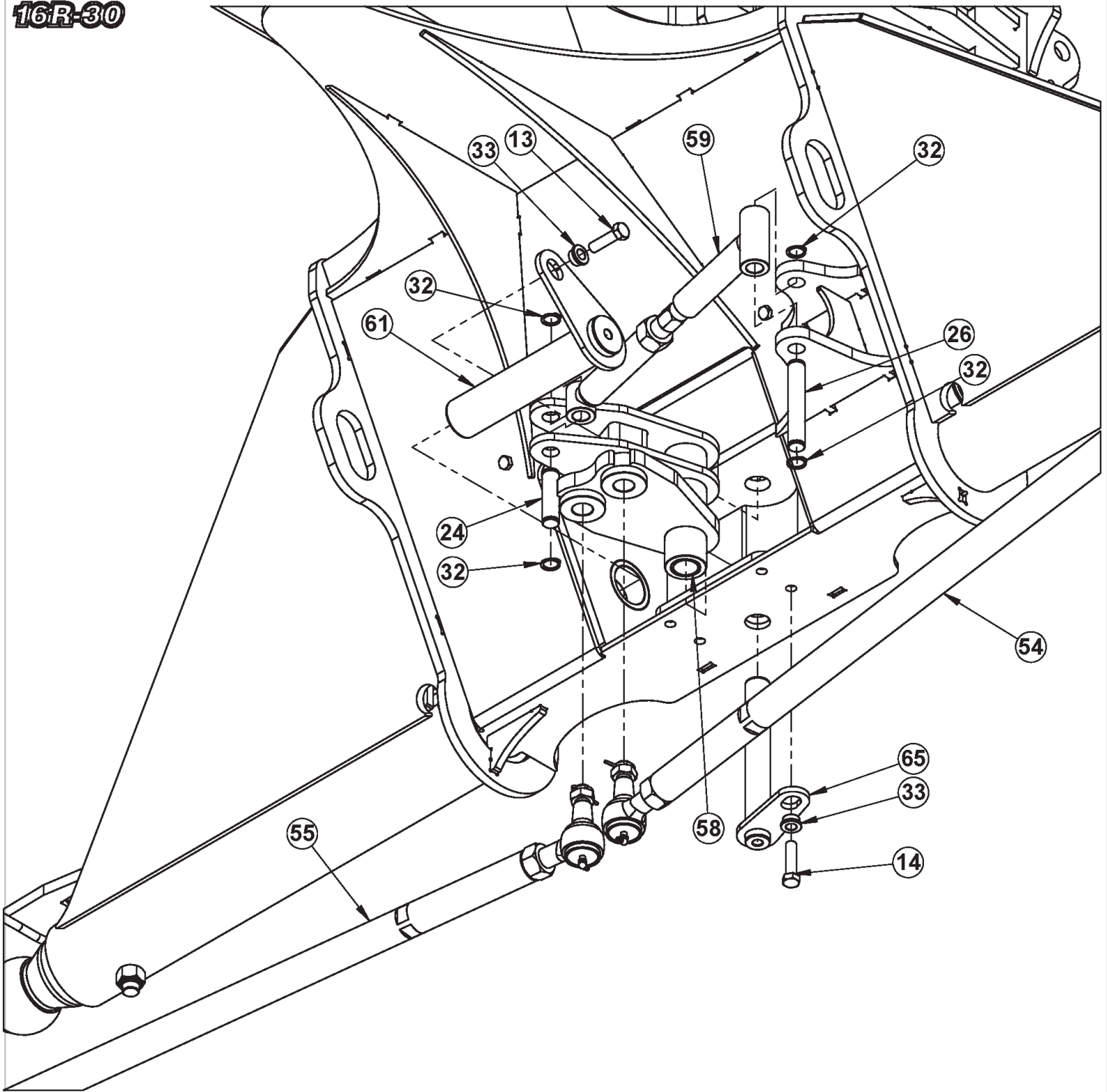




TA01757 Assy, 40' Main Frame 120" (Sheet 3 of 5)

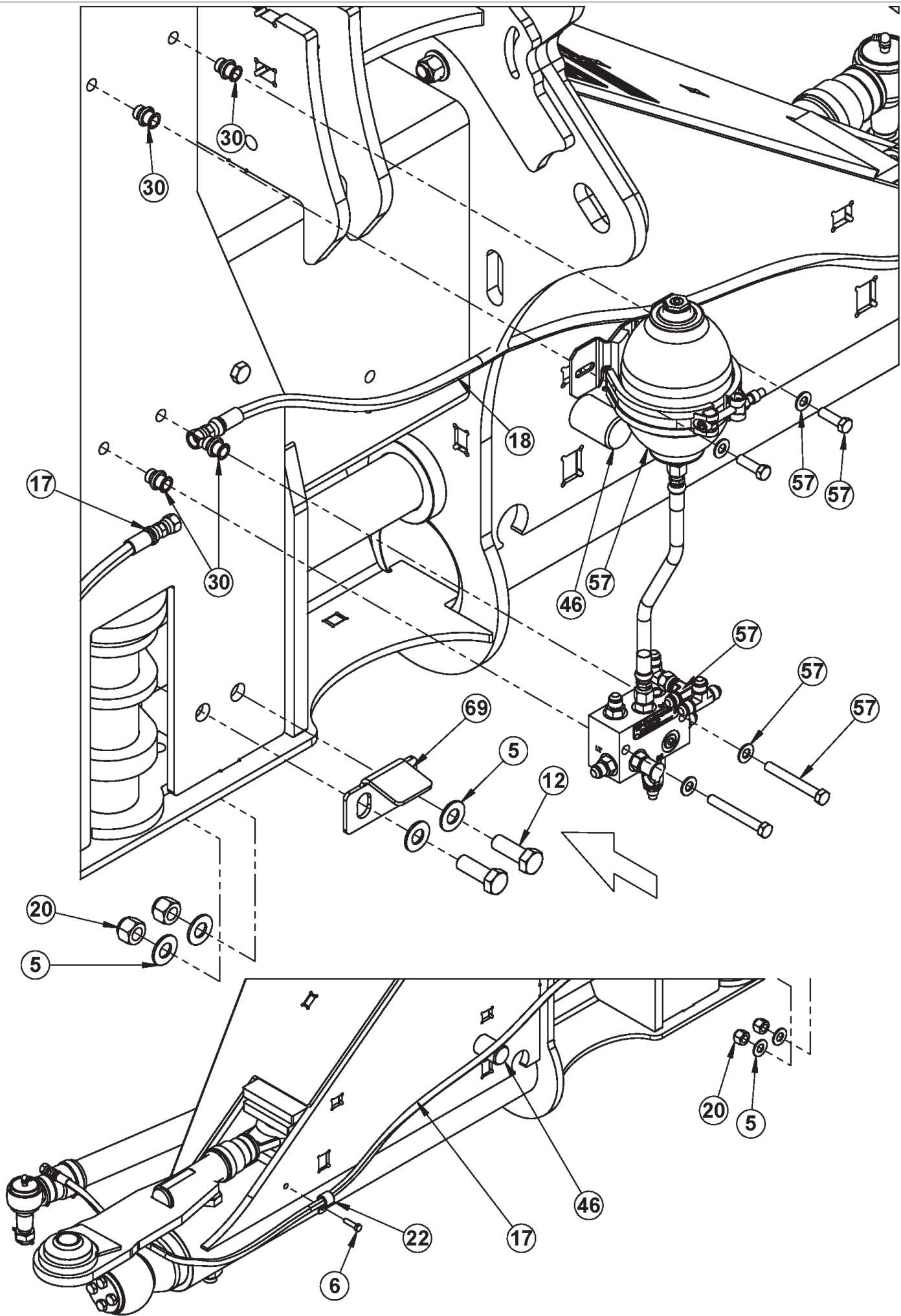
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MJ-06MB	ADAPTER 06MJ-06MB	4	
5	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	13	
8	HB-0.500-13X1.25Y8	Bolt, Hex Hd 1/2-13x1-1/4 YZ8	8	
12	HB-0.625-11X1.75Y8	Bolt, Hex Head-5/8-11x1.75-YZ8	6	
15	HB-1.000-8X7.00Y8	Bolt, Hex Hd-1-8x7-YZ8	2	
21	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
25	PIN-1.000X4.63Y	PIN-1.000X4.63Y	2	
27	PIN-1.000X6.125Y	Pin-1.0000x6.125-YZ	2	
28	PIN-1.438X3.50Y	PIN-1.438X3.50Y	2	
32	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
38	T0053788	Axle, Track Stub	2	
39	T0053791	Washer, Track Axle Retention	2	
41	T0054616	Stop Insert	4	
44	T0054904	Cylinder Cover, LH	1	
46	T0055290	Pin, Shipping Lock	2	
52	TA01117	Tilt Control Assembly	1	
56	TA01235	Cylinder, Tilt Stop	2	
63	TW001163	Wldmt, 120" Stop Block	2	





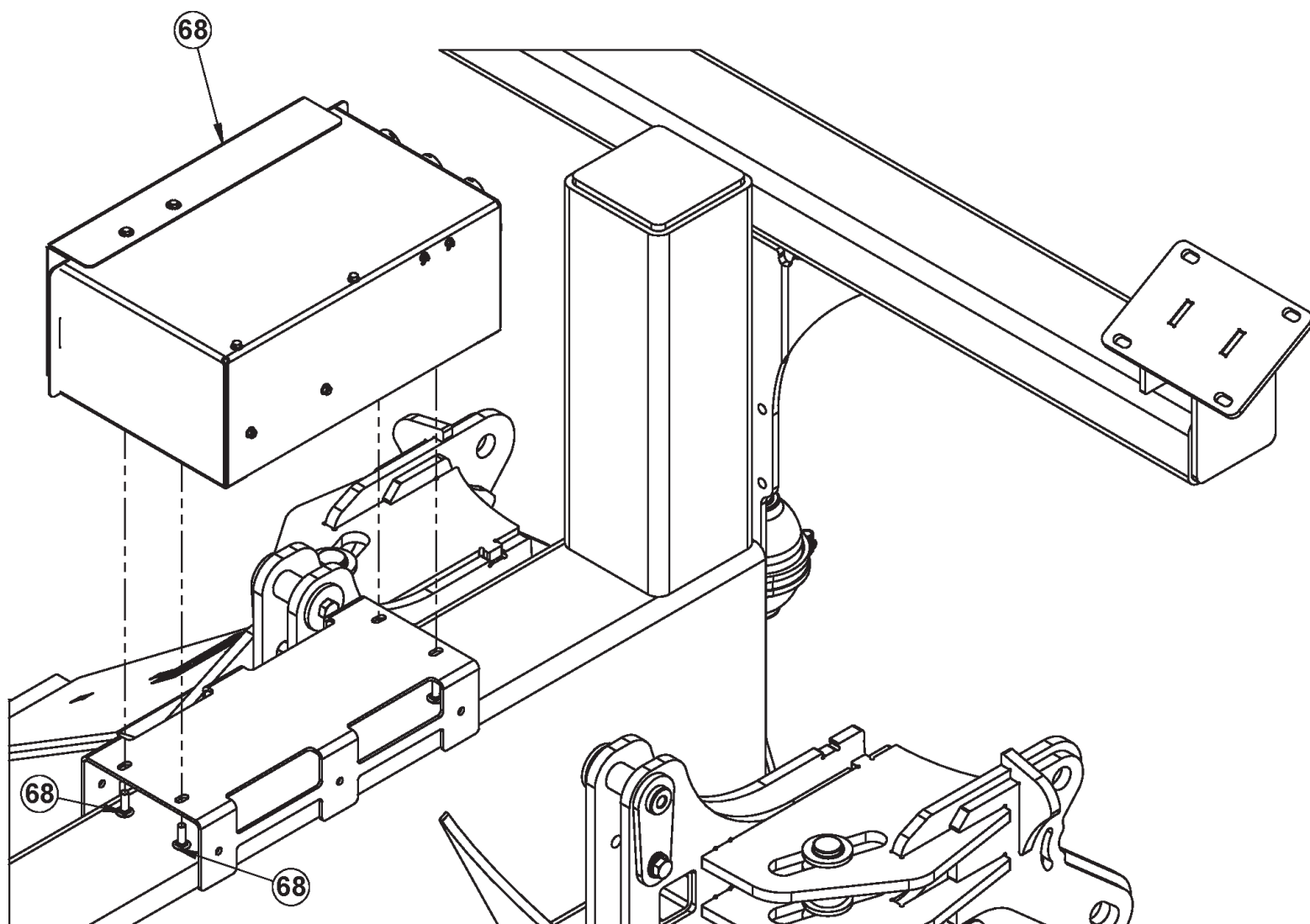
TA01757 Assy, 40' Main Frame 120" (Sheet 4 of 5)

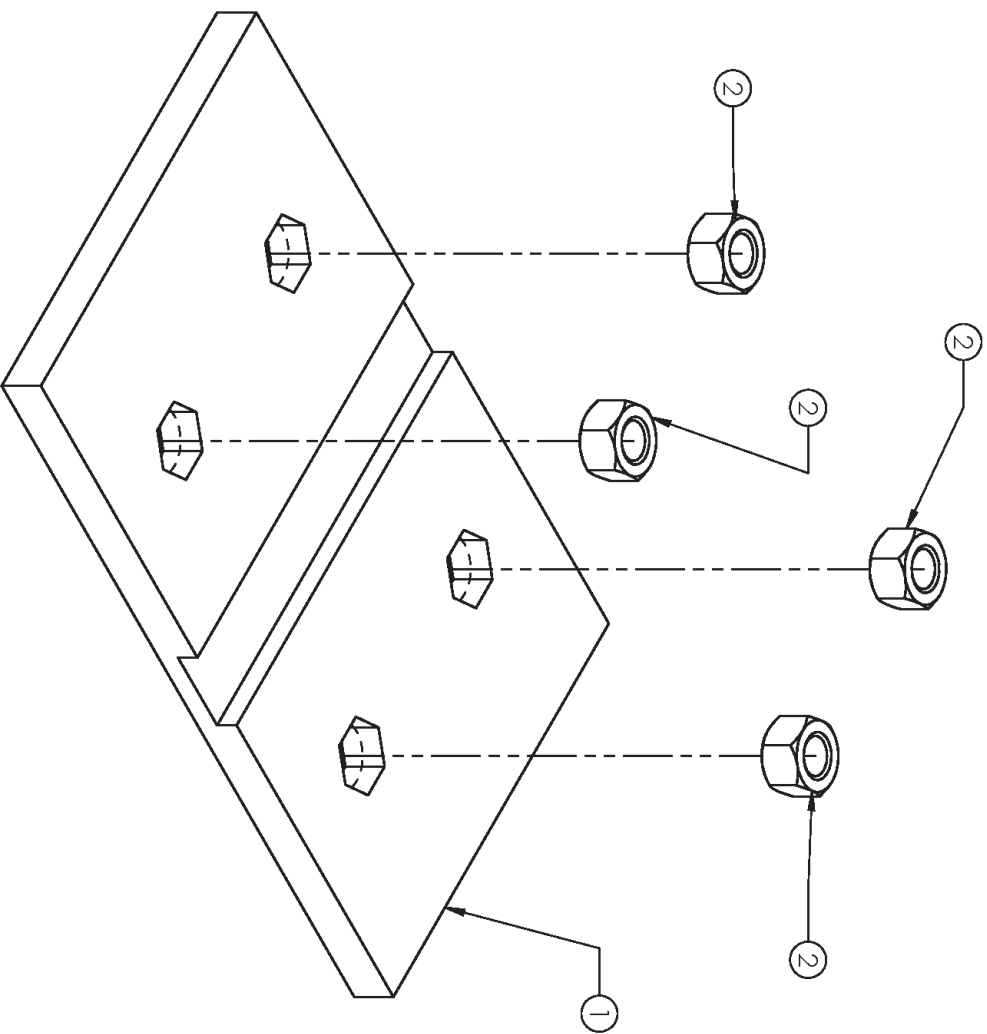
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
13	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	5	
14	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
20	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	12	
24	PIN-1.000X3.38Y	PIN-1.000X3.38Y	1	
26	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
32	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	10	
33	T0050854	Anti Rotation Insert	6	
54	TA01168	Assy, Tie Rod 120"	1	
55	TA01168	Assy, Tie Rod 120"	1	
58	TA01311	Steering Pivot Assy	1	
59	TA01637	Assy, Turnbuckle	1	
61	TW001012	Pin Weldment	2	
65	TW001170	Pin Weldment	1	



TA01757 Assy, 40' Main Frame 120" (Sheet 5 of 5)

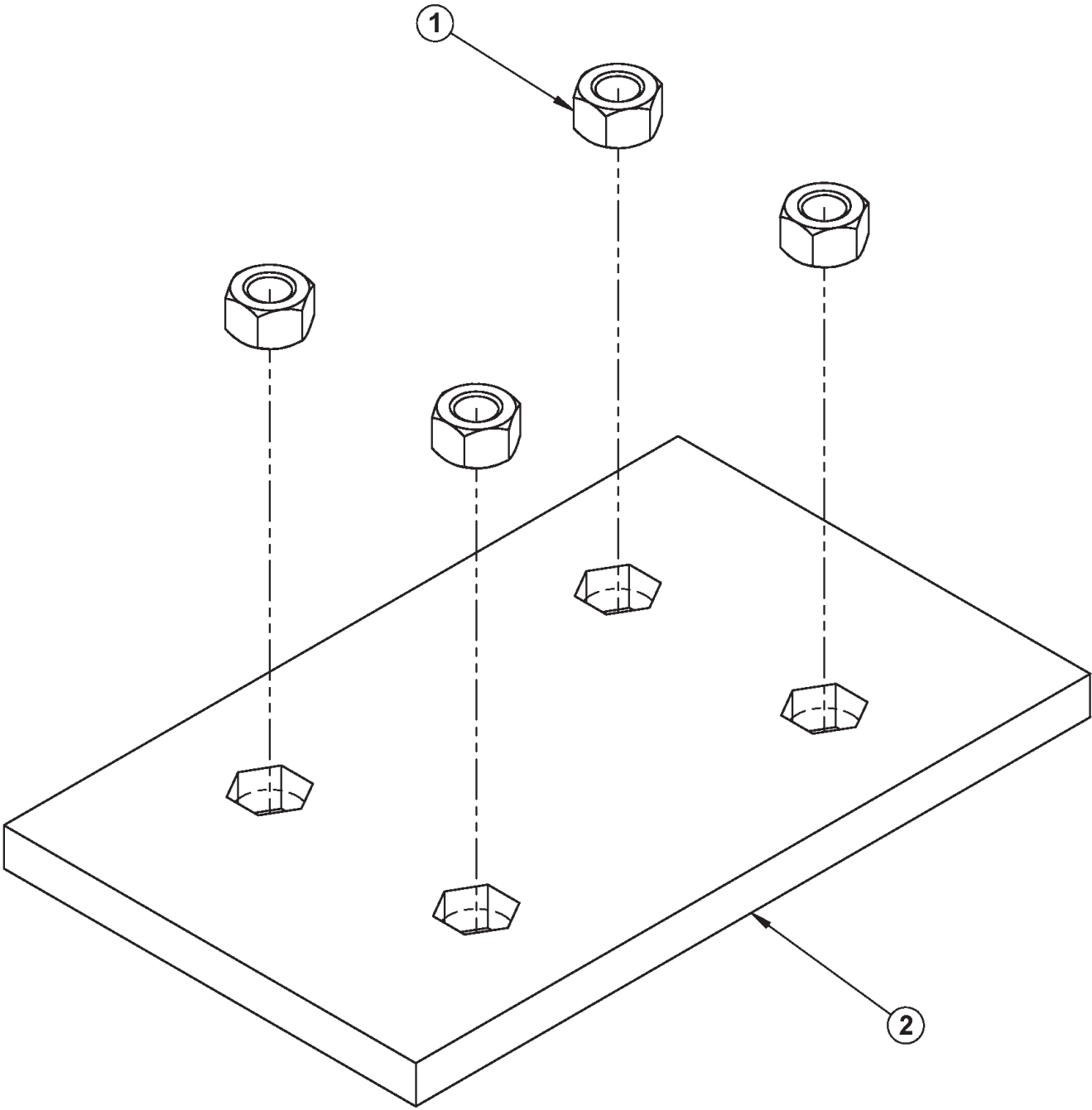
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
5	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	13	
6	HB-0.313-18X1.25Y8	Bolt, Hex Hd 5/16-18x1-1/4 YZ8	2	
12	HB-0.625-11X1.75Y8	Bolt, Hex Head-5/8-11x1.75-YZ8	6	
17	HS04-073-06FJ-06FJ-C	Hose 0.25-073-06FJX-06FJX-STC	1	
18	HS04-073-06FJ-06FJ-C	Hose 0.25-073-06FJX-06FJX-STC	1	
20	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	12	
22	PCLMP-0.750x0.875	Clmp, Cus Pipe Ø3/4"x7/8"	2	
30	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	4	
46	T0055290	Pin, Shipping Lock	2	
57	TA01239	Assy, Track Tension Valve	1	
68	48103378	KIT, UCM ASSEMBLY	1	
69	T0055683	Bracket, Striker	1	





TA00843 Assy, Slider				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0052385	Pad, Slider - w/ Dado Cut	1	
2	HNUT-0.500-13Y8	Nut, Hex 1/2-13 YZ8	4	

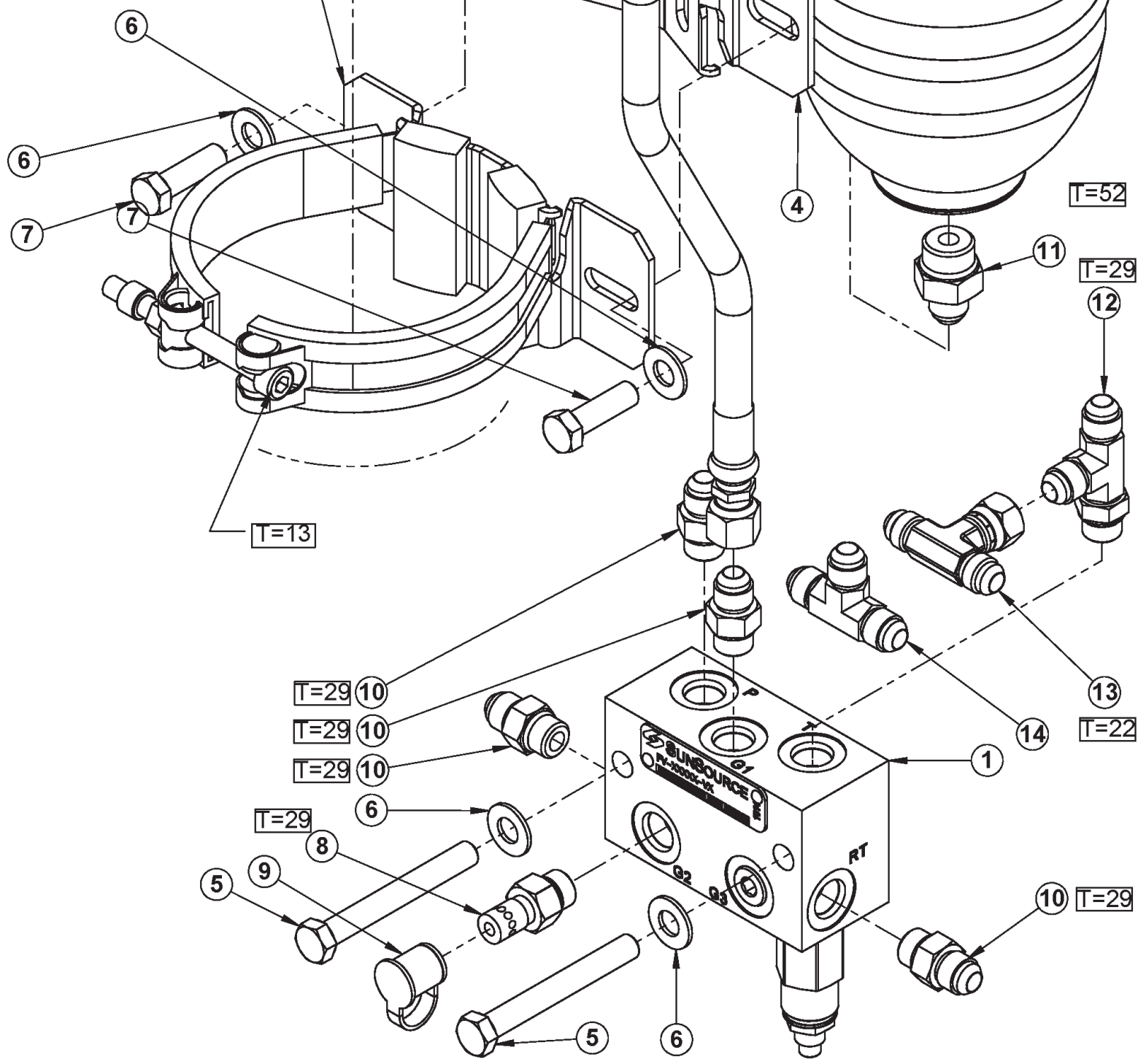
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TA00801 Assy, Slider				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HNUT-0.500-13Y8	Nut, Hex 1/2-13 YZ8	4	
2	T0052285	Pad, Slider	1	

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Remove the original bracket, and replace with P/N T0054491

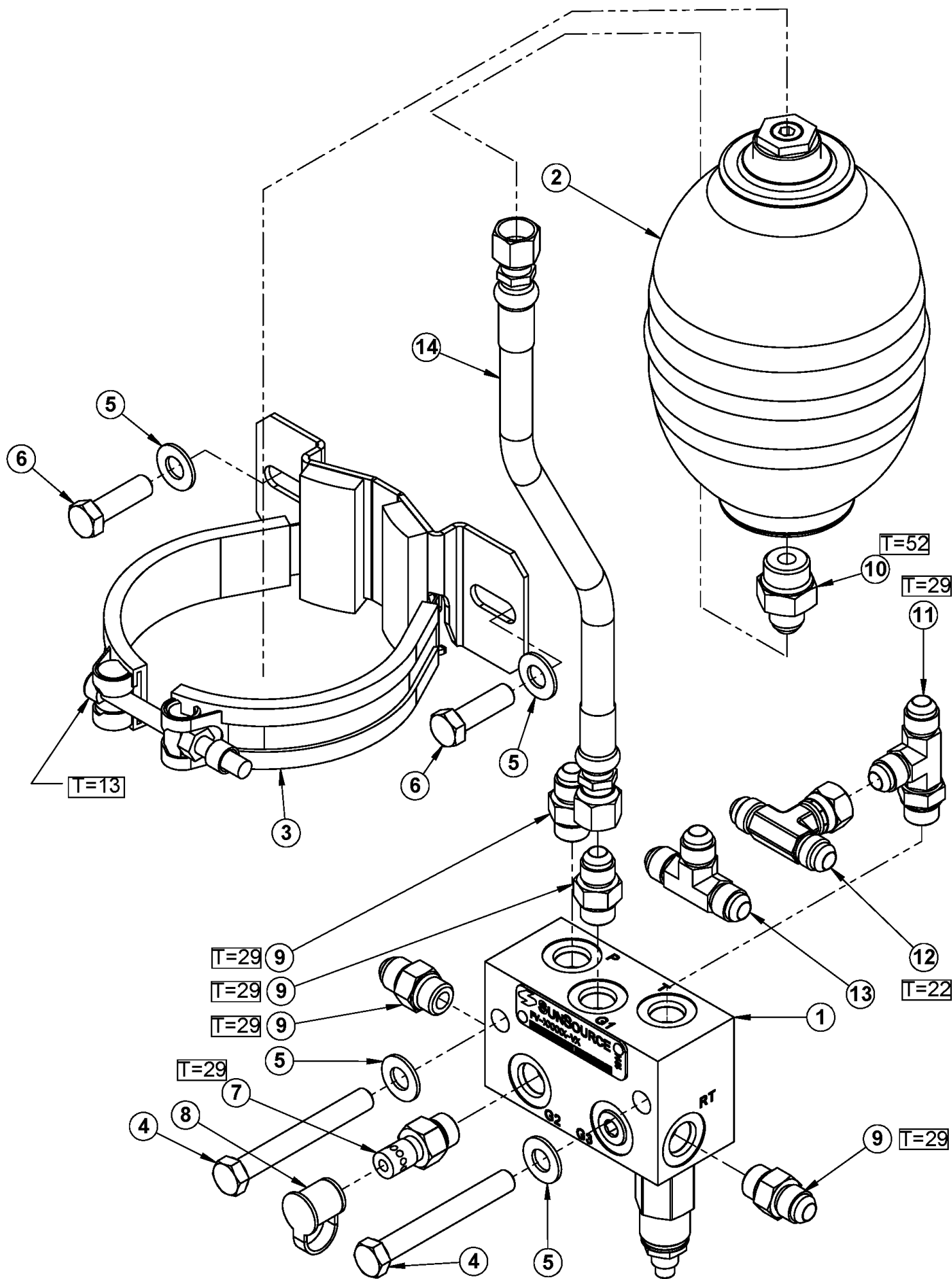


TA01239 Assy, Track Tension Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054379	Valve Assy, Track Tension	1	
2	T0054501	Accumulator, Track Tension	1	
3	T0054490	Clamp, Accumulator	1	
4	T0054491	Clamp Base	1	
5	HB-0.375-16X3.00Y8	HBolt-0.3750-16x3.000-YZ8	2	
6	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
7	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
8	T0054476	Diagnostic Nipple	1	29
9	T0054469	Cap, Rubber	1	
10	AD-06MJ-06MB	ADAPTER 06MJ-06MB	4	29
11	AD-06MJ-08MB	ADAPTER 06MJ-08MB	1	52
12	AD-06MJ-06MB-06MJ	AD-06MJ-06MB-06MJ	1	29
13	AD-06MJ-06MJ-06FJX	AD-06MJ-06MJ-06FJX	1	22
14	AD-06MJ-06MJ-06MJ	AD-06MJ-06MJ-06MJ	1	
15	T0054673	Hose 0.25-013-06FJX-06FJX	1	

Note:

1. **T=XXX** = Torque, and is expressed in ft-lbs.



TA01239 Assy, Track Tension Valve

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054379	Valve Assy, Track Tension	1	
2	T0054501	Accumulator, Track Tension	1	
3	TA01484	Assy, Accumulator Clamp	1	
4	HB-0.375-16X3.00Y8	HBolt-0.3750-16x3.000-YZ8	2	
5	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	4	
6	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
7	T0054476	Diagnostic Nipple	1	29
8	T0054469	Cap, Rubber	1	
9	AD-06MJ-06MB	Adapter, 06MJ-06MB	4	29
10	AD-06MJ-08MB	Adapter, 06MJ-08MB	1	52
11	AD-06MJ-06MB-06MJ	Adapter, 06MJ-06MB-06MJ Tee	1	29
12	AD-06MJ-06MJ-06FJX	Adapter, 06MJ-06MJ-06FJX Tee	1	22
13	AD-06MJ-06MJ-06MJ	Adapter, 06MJ-06MJ-06MJ Tee	1	
14	HS04-013-06FJ-06FJ-B	Hose 0.25-013-06FJX-06FJX	1	

Note:

1. **T=XXX** = Torque, and is expressed in ft-lbs.

Torque to 260 ft-lbs, continue to tighten past 260 ft-lbs until cotter pin hole is aligned
! DO NOT LOOSEN

T=260

Paint tie rods black if needed

T=260

Torque to 260 ft-lbs, continue to tighten past 260 ft-lbs until cotter pin hole is aligned
! DO NOT LOOSEN

Paint tie rods black if needed

Remove small hose clamp and discard

Must have equal amount of exposed tie-rod threads on each end of turnbuckle. Fully bottom both tie-rods and unscrew turnbuckle to set initial length.

Liberal apply Anti-Sieze Prior to assembly

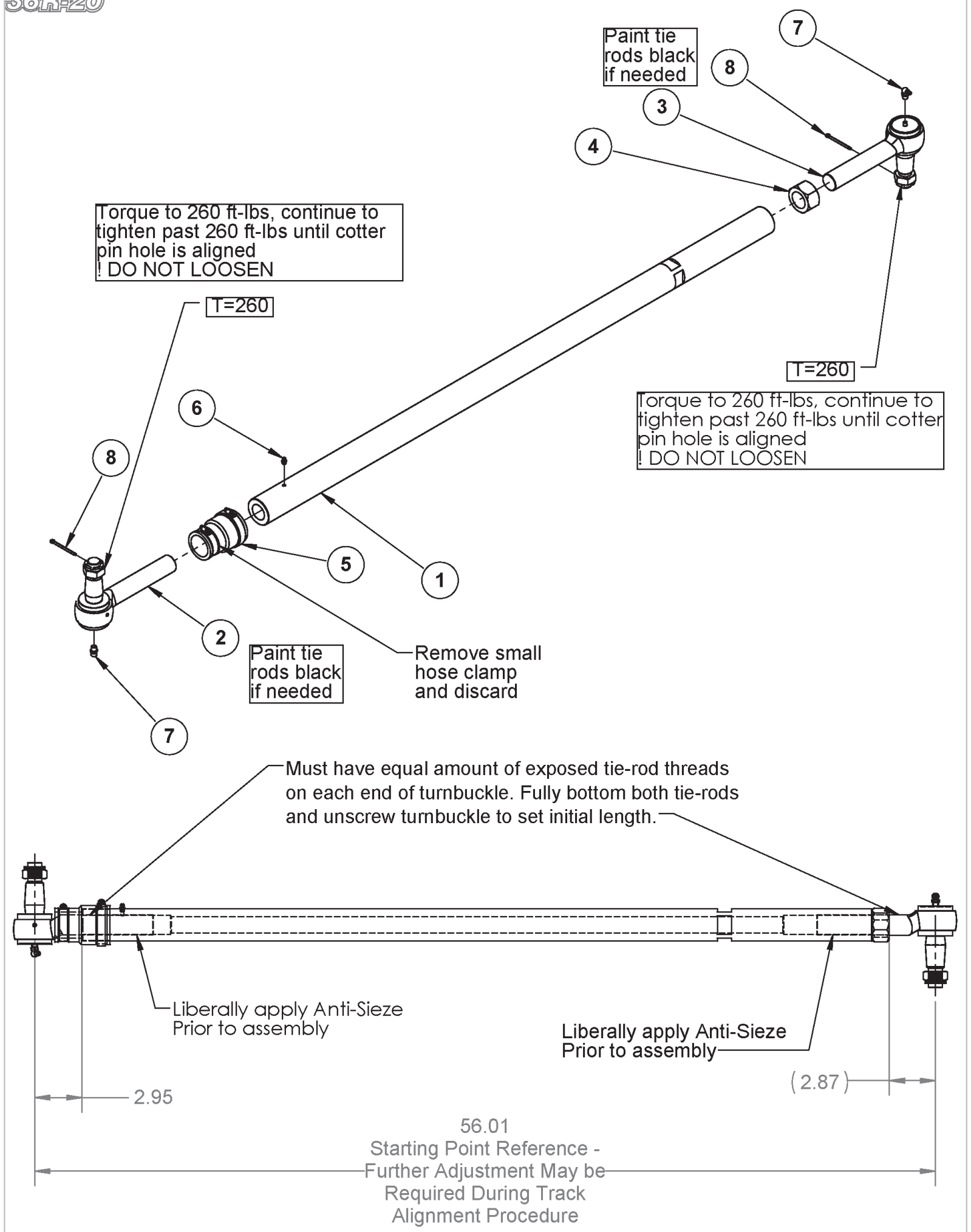
Liberal apply Anti-Sieze Prior to assembly

2.95

(2.87)

56.01

Starting Point Reference -
Further Adjustment May be
Required During Track
Alignment Procedure

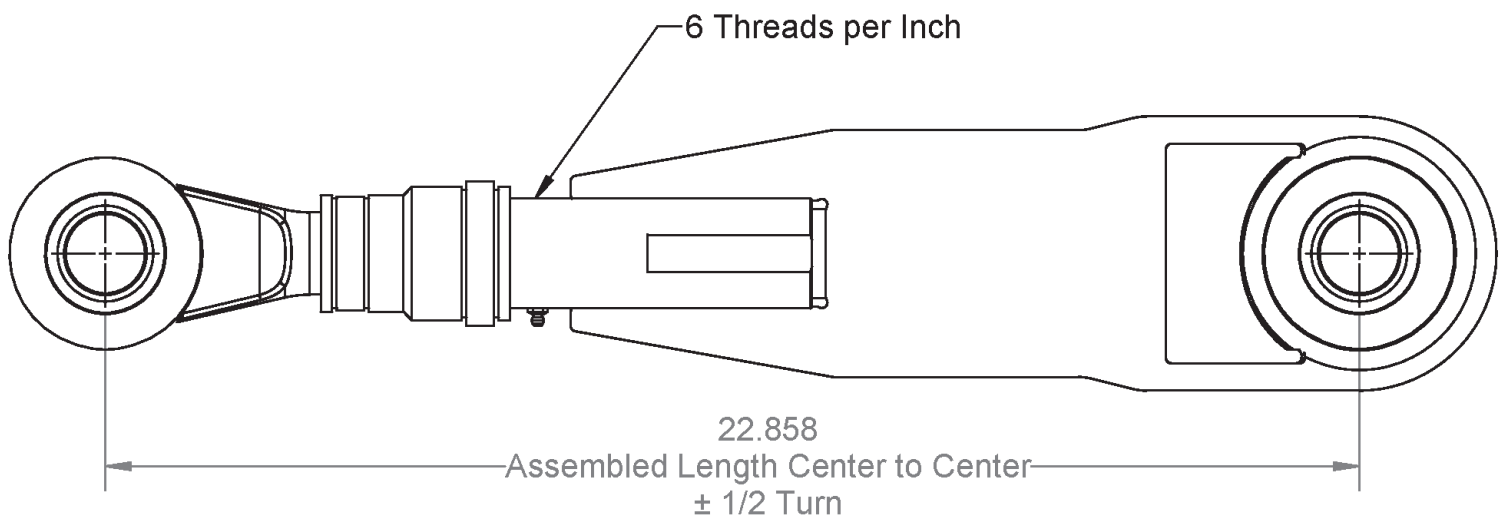
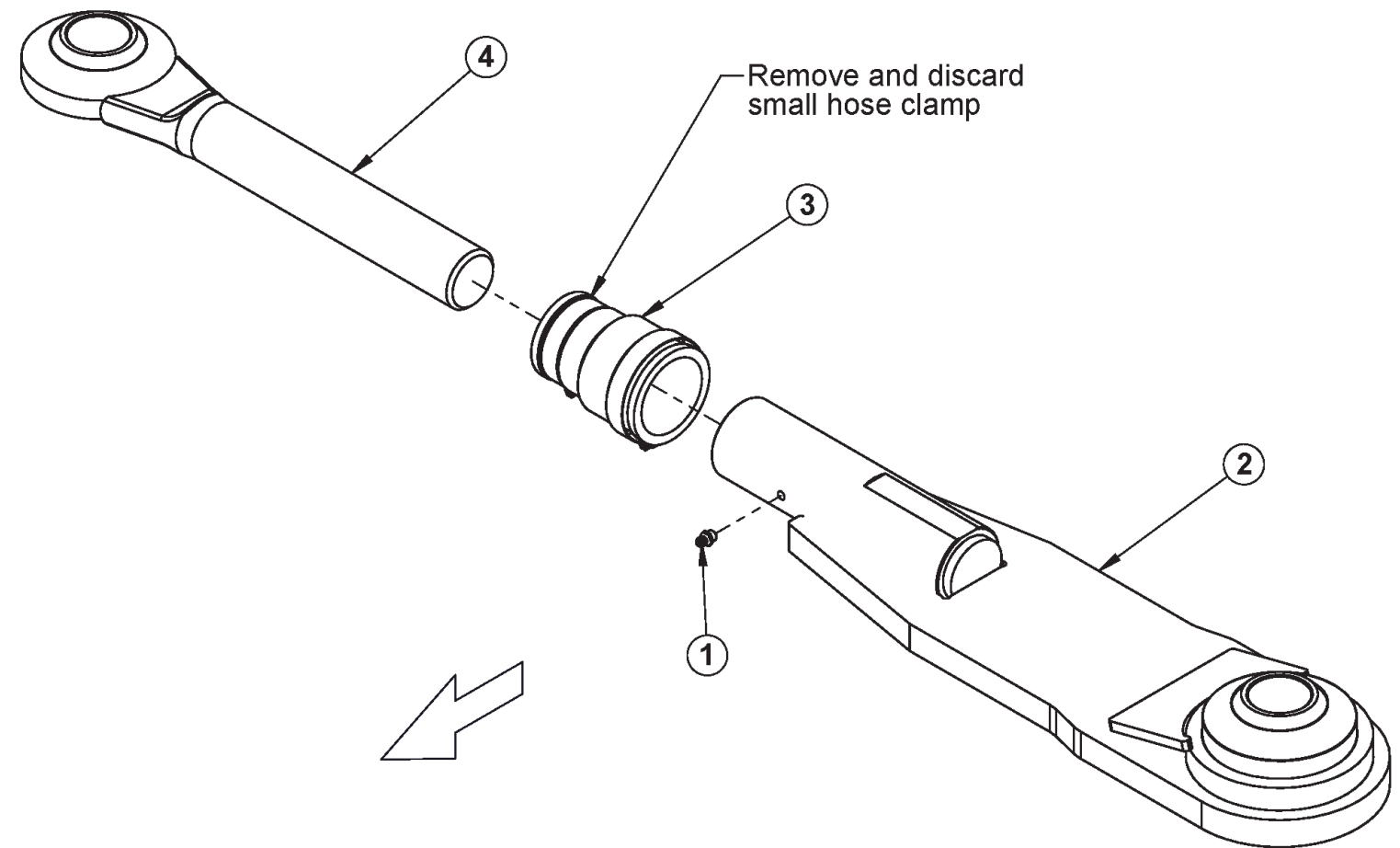


TA01168 Assy, Tie Rod 120"

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0054289	Turnbuckle 120"	1	
2	T0053839	Tie Rod End, Outter LH Thrds	1	
3	T0053945	Tie Rod End, Inner RH Thrds	1	
4	HNUT-1.250-12Y8	Nut, Hex 1-1/4-12 YZ8	1	
5	T0054207	1.5" x 1.25" Rubber Coupling	1	
6	ZERK-0.250-28	Zerk, 1/4-28	1	
7	ZERK-0.250-28X90	Zerk, Grease 1/4-28x90 Deg	2	
8	CTPIN-0.156X2.00	COTTER PIN, 1/8 X 1, SST	2	

Note:

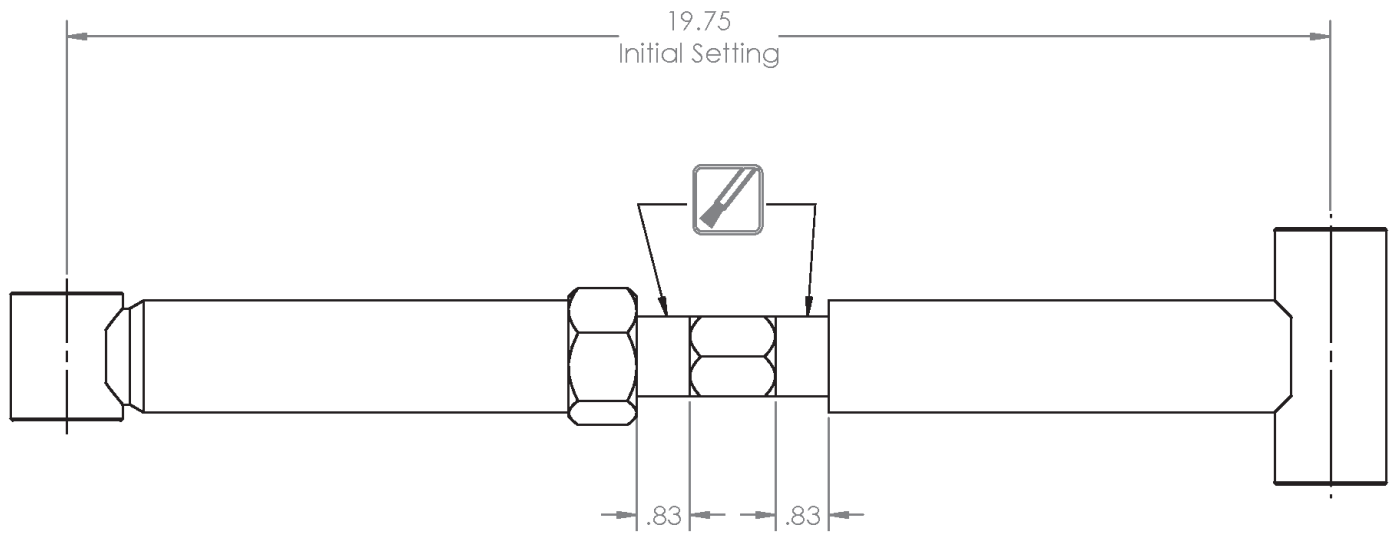
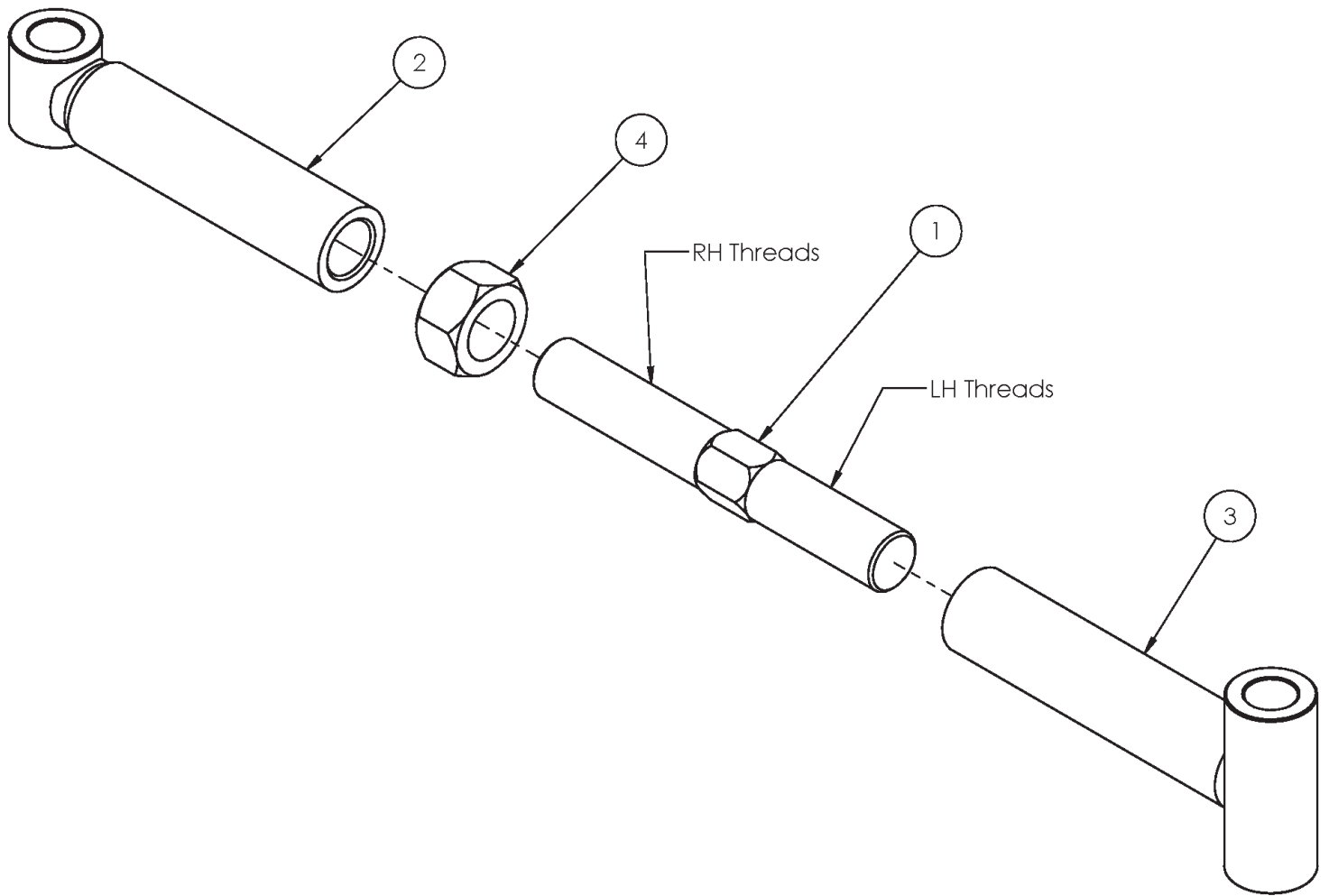
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. Paint tie rods black if needed.



TA01117 Tilt Control Assembly				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	ZERK-0.250-28	Zerk, 1/4-28	1	
2	TW001063	Wldmt, Tilt Stop	1	
3	T0054207	1.5" x 1.25" Rubber Coupling	1	
4	T0051213	RH End Link	1	



24R-20 24R-22 24R-30 36R-20 36R-22 48R-15



Thread lengths must be equal

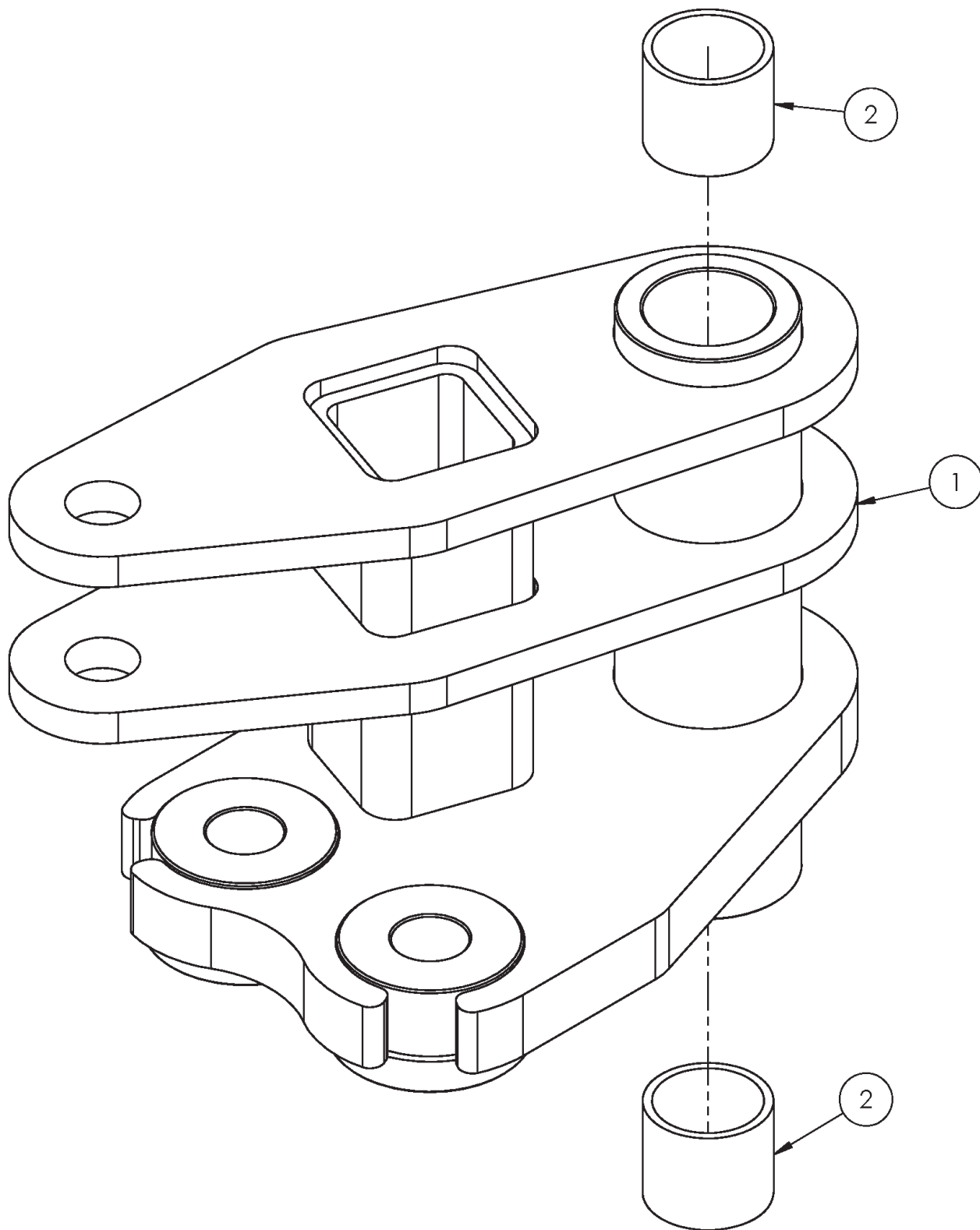
TA01637 Assy, Turnbuckle

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0055292	Shaft, Turnbuckle	1	
2	TW001289	Wdmt, Turnbuckle RH	1	
3	TW001290	Wdmt, Turnbuckle LH	1	
4	HNUT-1.250-12Y8	Nut, Hex 1-1/4-12 YZ8	1	

Note:

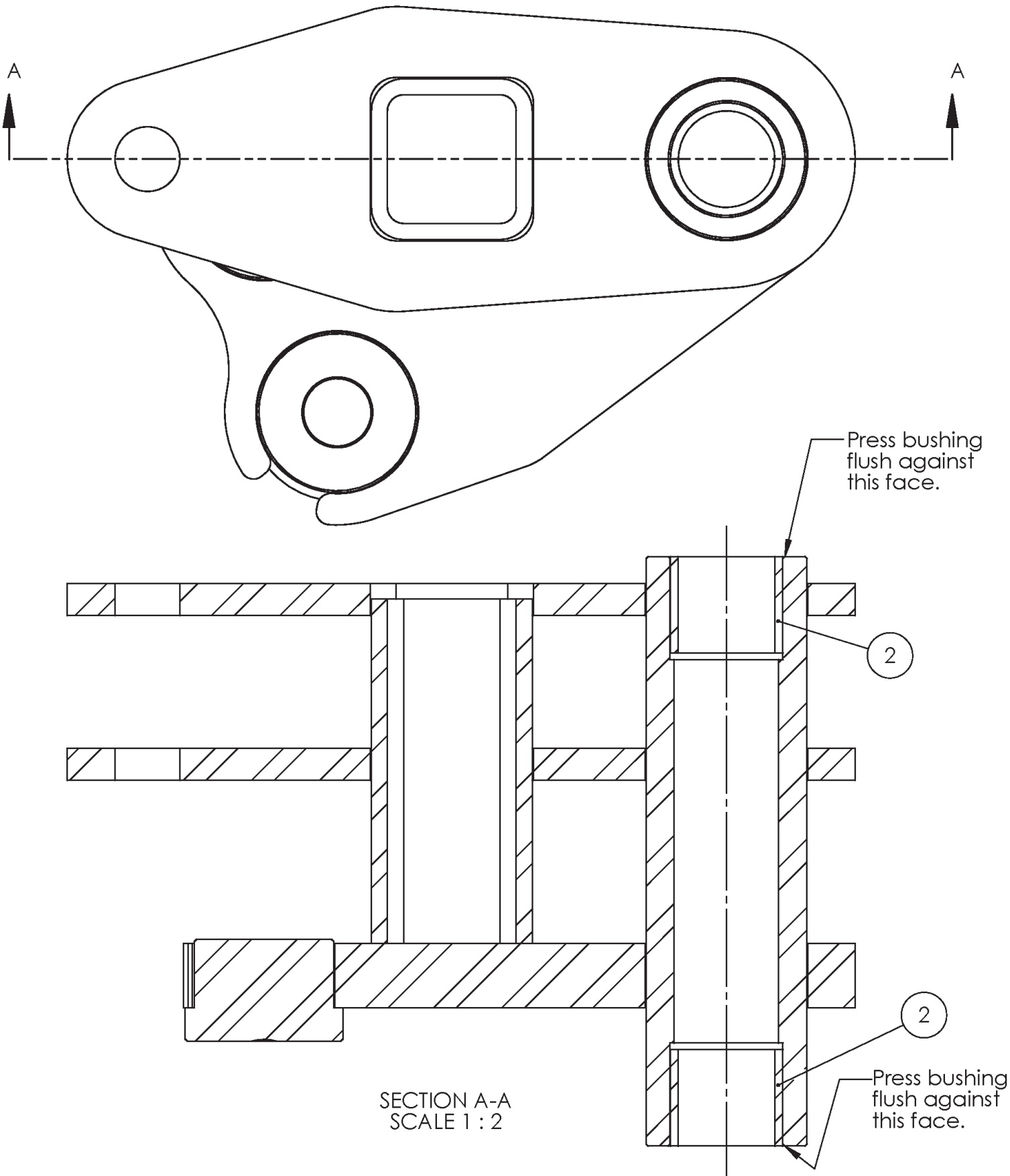
- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.
- 3.  = Apply Anti-Sieze

24R-20 24R-22 24R-30 36R-20 36R-22 48R-15

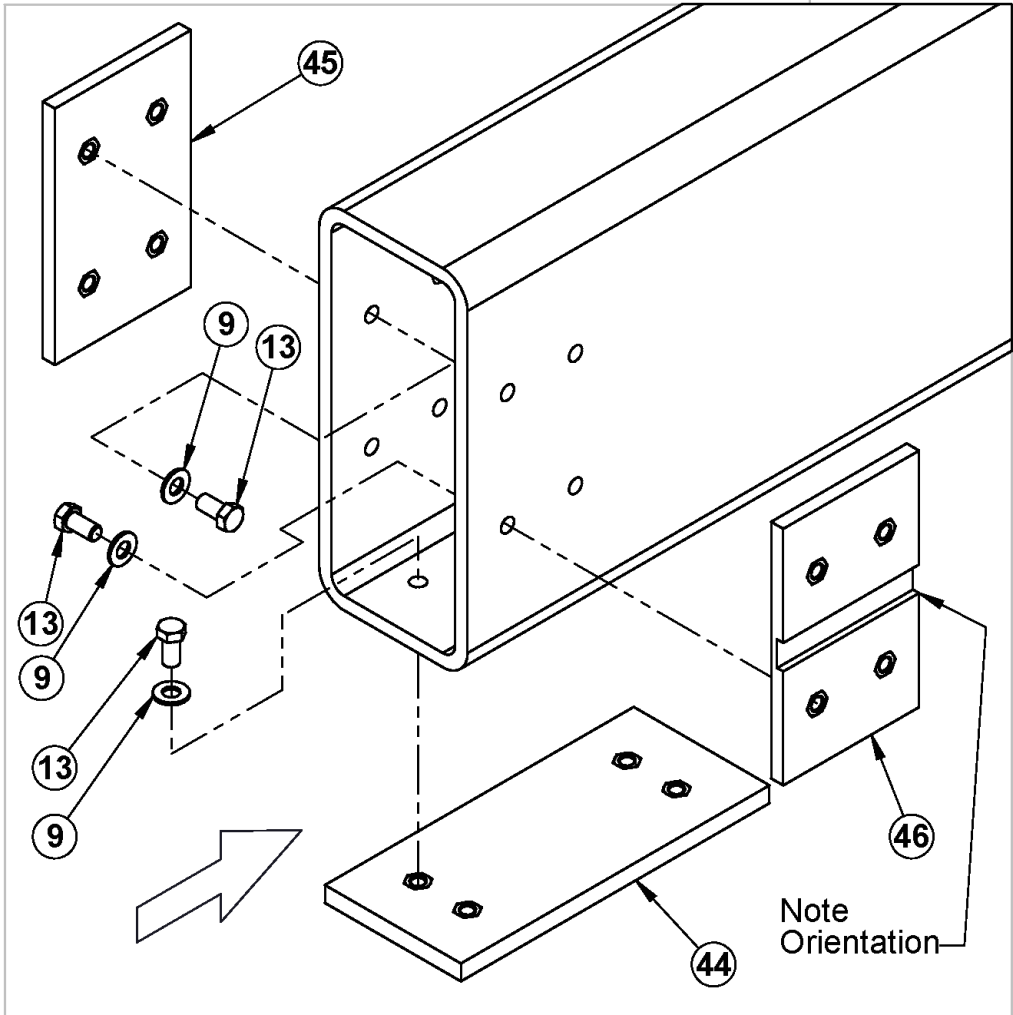
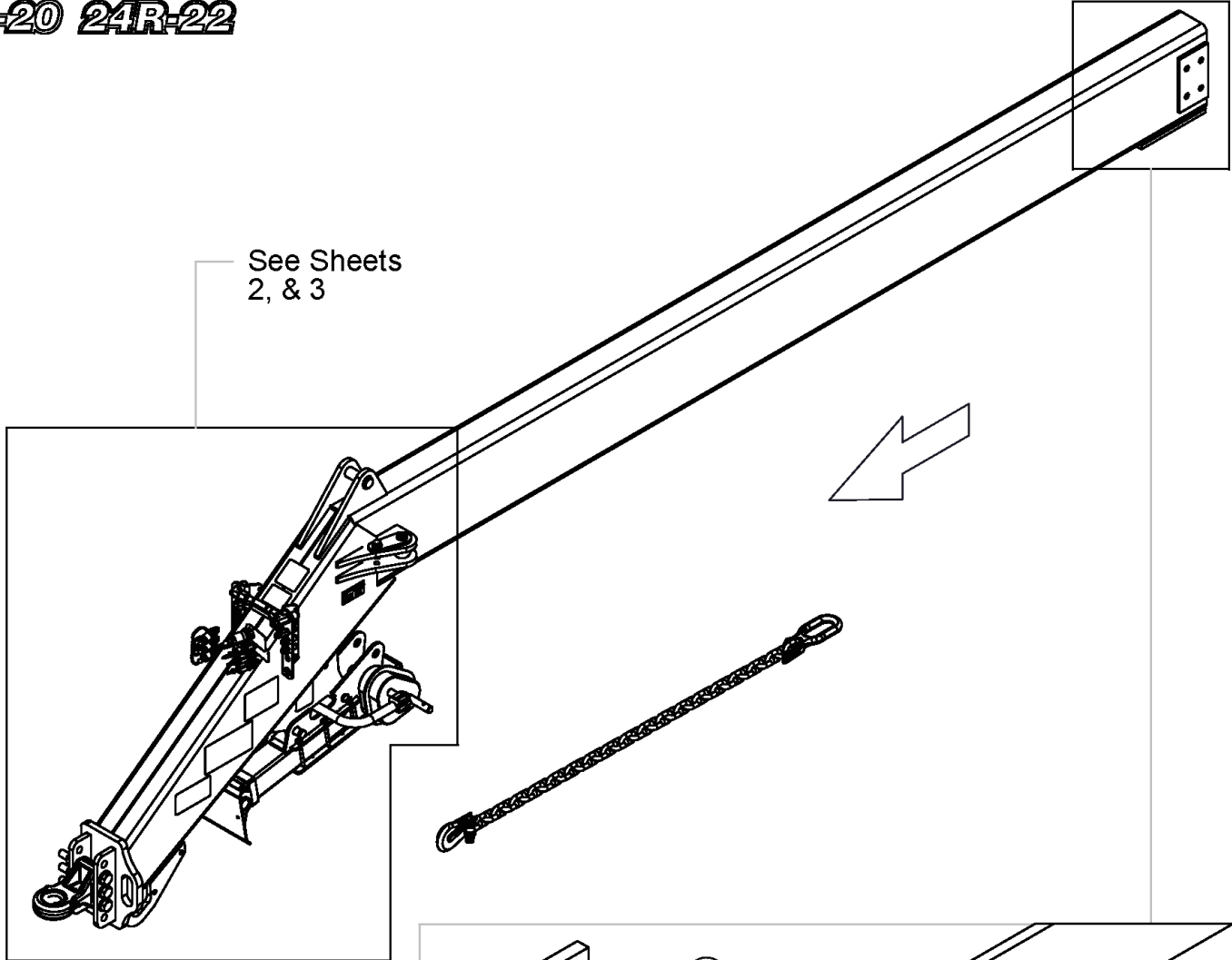


TA01311 Steering Pivot Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001167	Wldmt, Steering Pivot	1	
2	PB-1.500X1.75X1.50	Bush, Polygon 1.50x1.75x1.50	2	



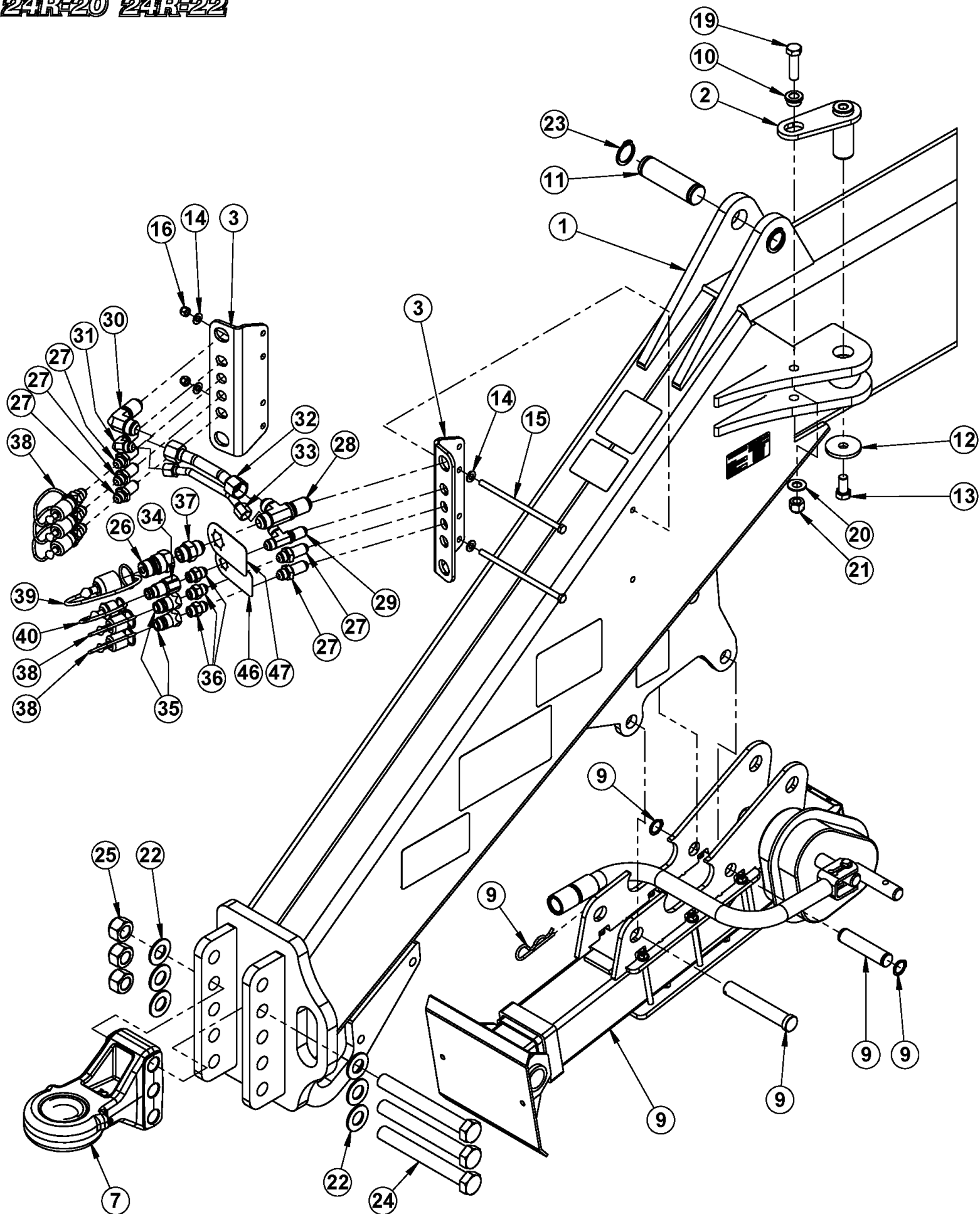
See Sheets
2, & 3



TA01333 Assy, 24R20/22 Front Hitch (Sheet 1 of 3)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-08MJ-08MB	ADAPTER 08MJ-08MB	6	
2	AD-08MJ-08MJ-08MJ-BHR	ADAPTER 08MJT BH RUN	1	
3	AD-08MJ-08MJ-BH	ADAPTER 08MJ-08MJ BH	5	
4	AD-08MJ-08MJ-BH90	ADAPTER 08MJ-08MJ BH 90	1	
5	AD-12MJ-12MB	ADAPTER 12MJ-12MB	1	
6	AD-12MJ-12MJ-12MJ-BHR	ADAPTER 12MJT BH RUN	1	
7	AD-12MJ-12MJ-BH90	ADAPTER 12MJ-12MJ BH 90	1	
8	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
9	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	12	
10	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	2	
11	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	6	
12	HB-0.375-16X8.00Y8	Bolt, Hex Head-3/8-16x8.0-YZ8	2	
13	HB-0.500-13X1.00Y8	Bolt, Hex Hd 1/2-13x1 YZ8	12	
14	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
15	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
16	HB-1.000-8X8.50Y8	Bolt, Hex Head-1.0-8x8.5-YZ8	3	
17	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
18	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	
19	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
20	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	3	
21	PIN-1.50X4.50Y	Pin-1.50x4.50-YZ	1	
22	SRING-EXT-HD-1.50Y	SRING-EXT-HD-1.50Y	2	
23	T0050854	Anti Rotation Insert	2	
24	T0051511	Safety Chain-61,000 lbs. 80"	1	
25	T0051573	Decal, Warning-Machine Safety	1	
26	T0051575	Decal, Warning-Tipping Hazard	2	
27	T0051595	Decal, Notice-Fan Motor Case	1	
28	T0051660	Tip, 1/2" Pioneer	5	
29	T0051669	Decal, Warning-Hyd Fluid	1	
30	T0051678	Decal, Notice-Motor Return	1	
31	T0051702	Decal, Important-Case Drain	1	
32	T0052002	Plate, Bulkhead	2	
33	T0052292	Tube Assy, Crossover	1	
34	T0052293	Tube Assy, Crossover	1	
35	T0052376	Tip, Motor Return w/Relief	1	
36	T0052377	Tip, Case Drain w/Relief	1	
37	T0052386	Dust Plug, Pioneer Black	5	
38	T0052387	Dust Cap, Motor Return Black	1	
39	T0052388	Dust Cap, Case Drain Black	1	
40	T0053462	Decal, Warning-Machine Transp	1	
41	T0053639	Decal, 2-Speed Jack	1	
42	T0055106	Decal, S/N 24R20 2017	1	
43	T0055173	Hitch. CAT 4 3-Hole	1	
44	TA00800	Slider Assembly	1	
45	TA00801	Assy, Slider	1	
46	TA00843	Assy, Slider	1	
47	TA01000	Jack Assembly	1	
48	TW000630	Pin Weldment	2	
49	TW001188	Wldmt, 24R20/22 Front Hitch	1	

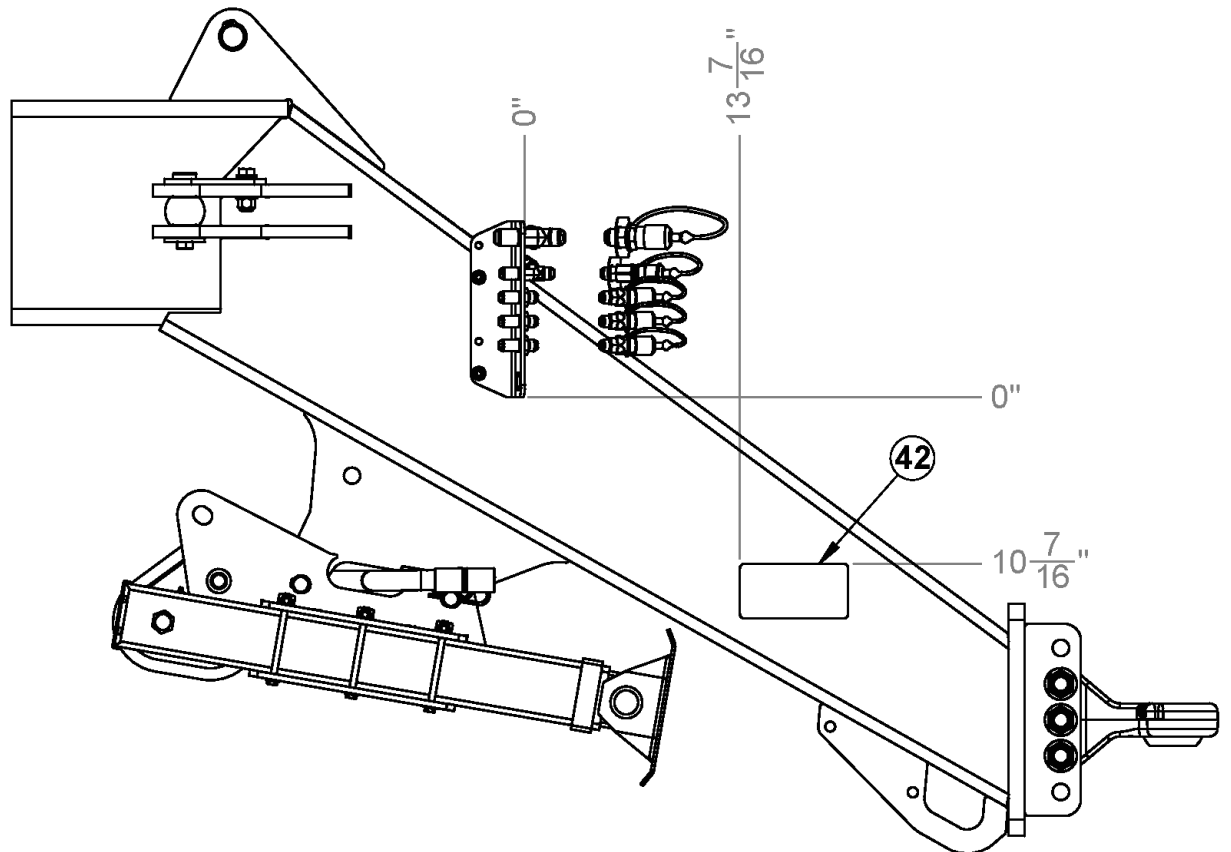
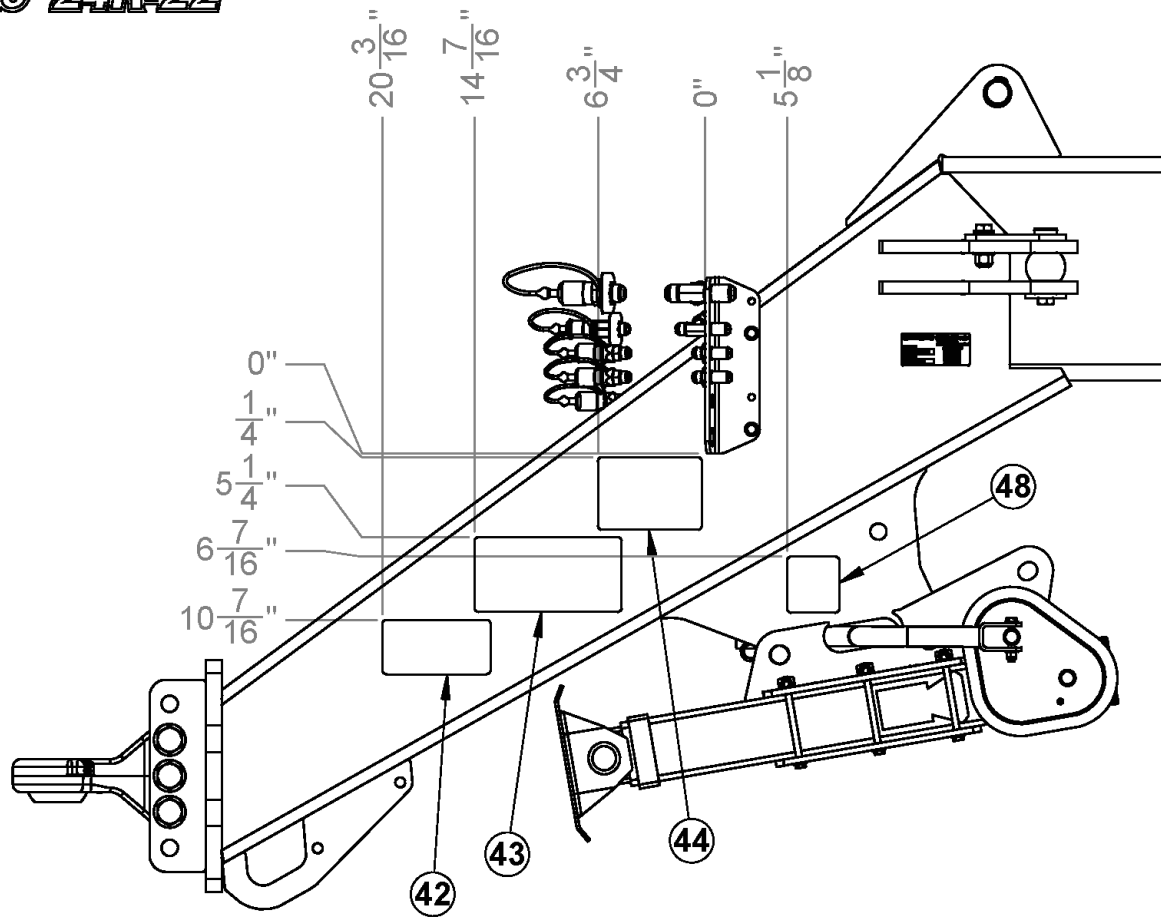
24R-20 24R-22



TA01333 Assy, 24R20/22 Front Hitch (Sheet 2 of 3)

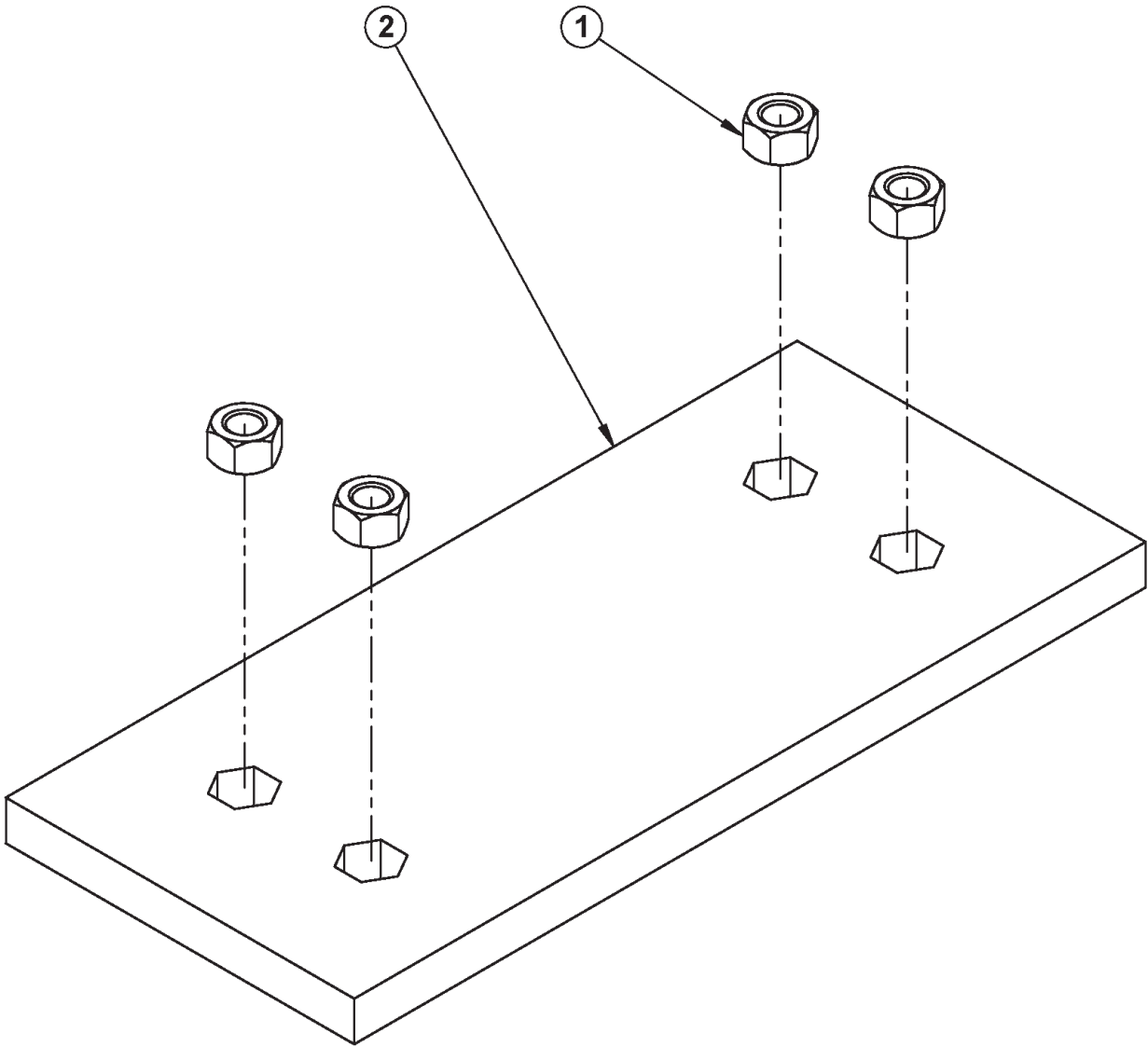
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001188	Wldmt, 24R20/22 Front Hitch	1	
2	TW000630	Pin Weldment	2	
3	T0052002	Plate, Bulkhead	2	
7	T0055173	Hitch. CAT 4 3-Hole	1	
9	TA01000	Jack Assembly	1	
10	T0050854	Anti Rotation Insert	2	
11	PIN-1.50X4.50Y	Pin-1.50x4.50-YZ	1	
12	HDWSH-0.64X2.50Y	HD Washer 0.64 x 2.50	2	
13	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	2	
14	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
15	HB-0.375-16X8.00Y8	Bolt, Hex Head-3/8-16x8.0-YZ8	2	
16	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	
19	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
20	FW-SAE-0.625Y	Washer, Flat-SAE-5/8	2	
21	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
22	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	6	
23	SRING-EXT-HD-1.50Y	SRING-EXT-HD-1.50Y	2	
24	HB-1.000-8X8.50Y8	Bolt, Hex Head-1.0-8x8.5-YZ8	3	
25	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	3	
26	T0052376	Tip, Motor Return w/Relief	1	
27	AD-08MJ-08MJ-BH	ADAPTER 08MJ-08MJ BH	5	
28	AD-12MJ-12MJ-12MJ-BHR	ADAPTER 12MJT BH RUN	1	
29	AD-08MJ-08MJ-08MJ-BHR	ADAPTER 08MJT BH RUN	1	
30	AD-12MJ-12MJ-BH90	ADAPTER 12MJ-12MJ BH 90	1	
31	AD-08MJ-08MJ-BH90	ADAPTER 08MJ-08MJ BH 90	1	
32	T0052292	Tube Assy, Crossover	1	
33	T0052293	Tube Assy, Crossover	1	
34	T0052377	Tip, Case Drain w/Relief	1	
35	T0051660	Tip, 1/2" Pioneer	5	
36	AD-08MJ-08MB	ADAPTER 08MJ-08MB	6	
37	AD-12MJ-12MB	ADAPTER 12MJ-12MB	1	
38	T0052386	Dust Plug, Pioneer Black	5	
39	T0052387	Dust Cap, Motor Return Black	1	
40	T0052388	Dust Cap, Case Drain Black	1	
46	T0051595	Decal, Notice-Fan Motor Case	1	
47	T0051678	Decal, Notice-Motor Return	1	

24R-20 24R-22



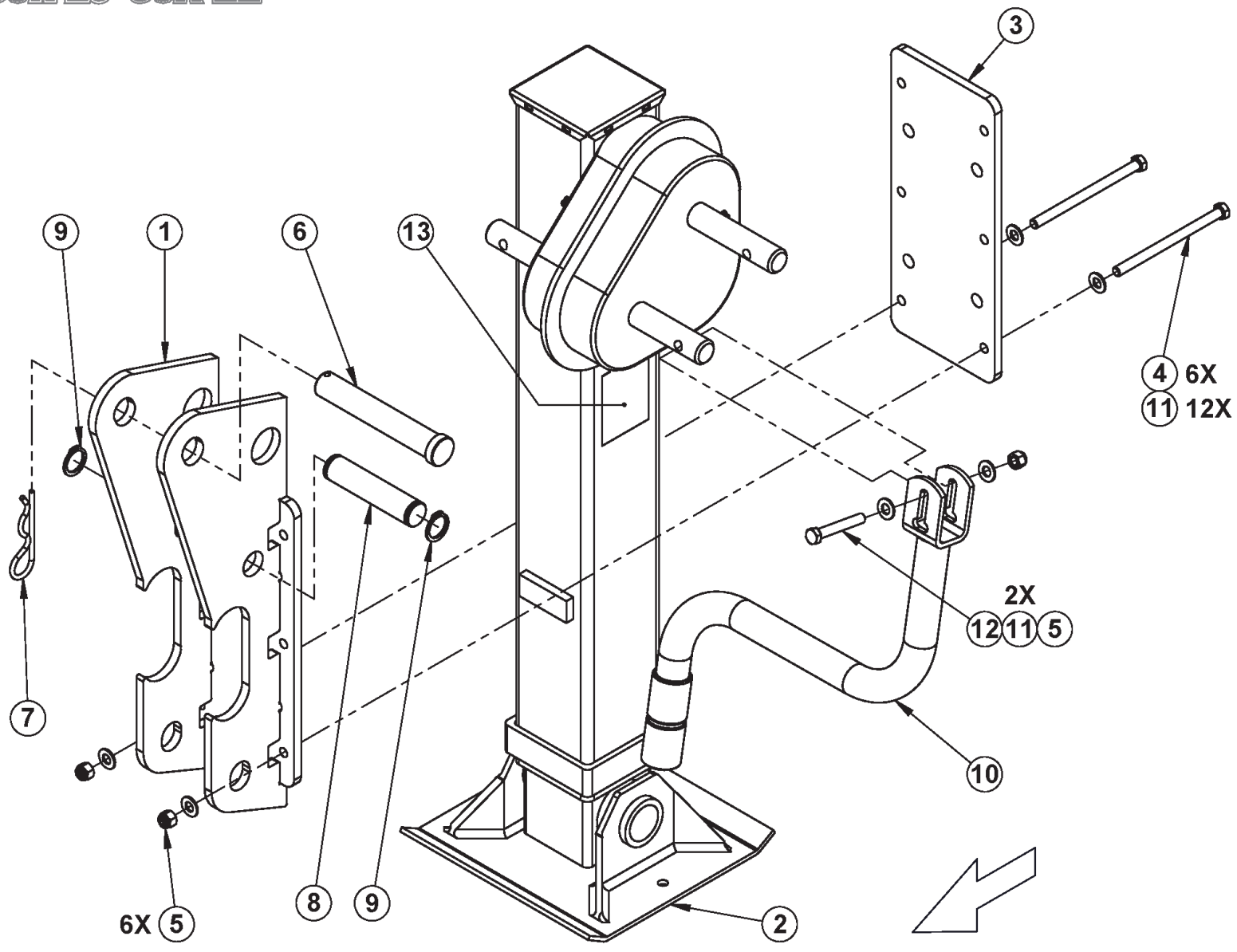
TA01333 Assy, 24R20/22 Front Hitch (Sheet 3 of 3)

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001188	Wldmt, 24R20/22 Front Hitch	1	
42	T0051575	Decal, Warning-Tipping Hazard	2	
43	T0053462	Decal, Warning-Machine Transp	1	
44	T0051573	Decal, Warning-Machine Safety	1	
48	T0053639	Decal, 2-Speed Jack	1	

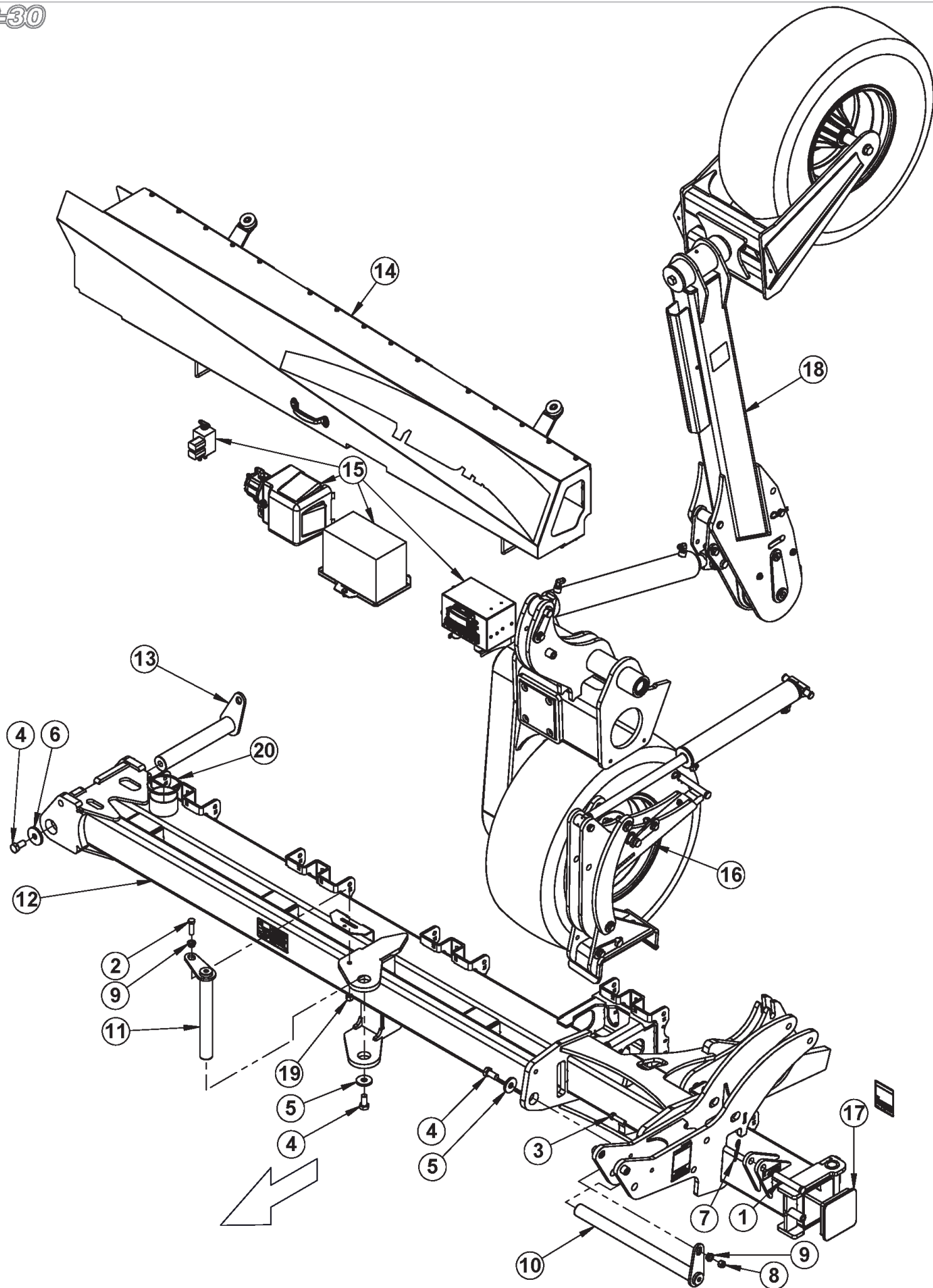


TA00800 Slider Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HNUT-0.500-13Y8	Nut, Hex 1/2-13 YZ8	4	
2	T0052284	Pad, Slider	1	



TA01000 Jack Assembly				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW000935	Bracket, Jack Mount	1	
2	TW000940	Jack Weldment	1	
3	T0053314	Plate, Jack Mount	1	
4	HB-0.375-16X5.50Y8	HBolt-0.3750-16x5.500-YZ8	6	
5	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	7	
6	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	1	
7	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	1	
8	PIN-1.000X4.13Y	PIN-1.000X4.13Y	1	
9	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
10	T0054234	Jack Handle, Black	1	
11	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	14	
12	HB-0.375-16X2.50Y8	Bolt, Hex Hd 3/8-16x2-1/2-YZ8	1	
13	T0053640	Decal, Max Cap 12500 Not Cut	1	

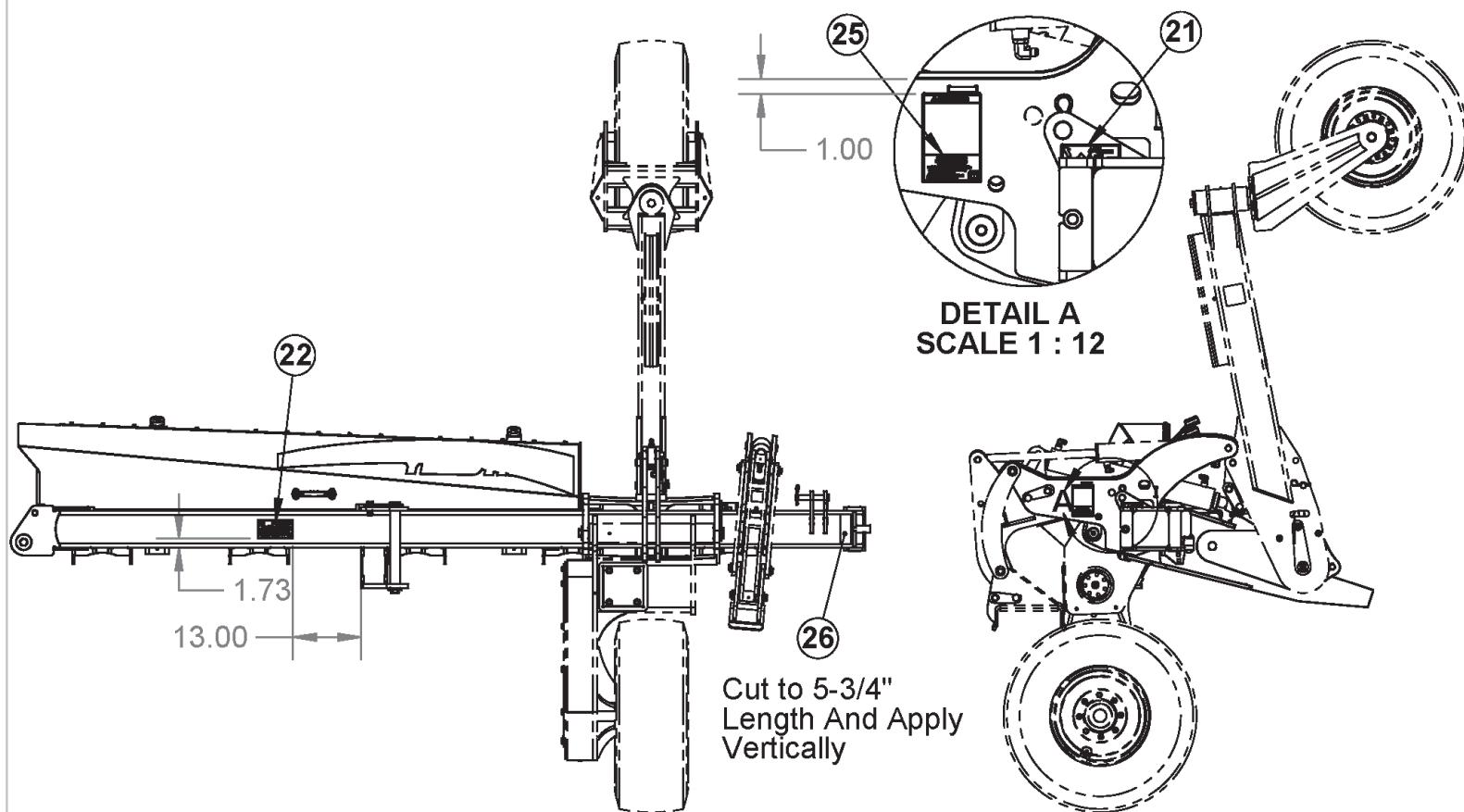


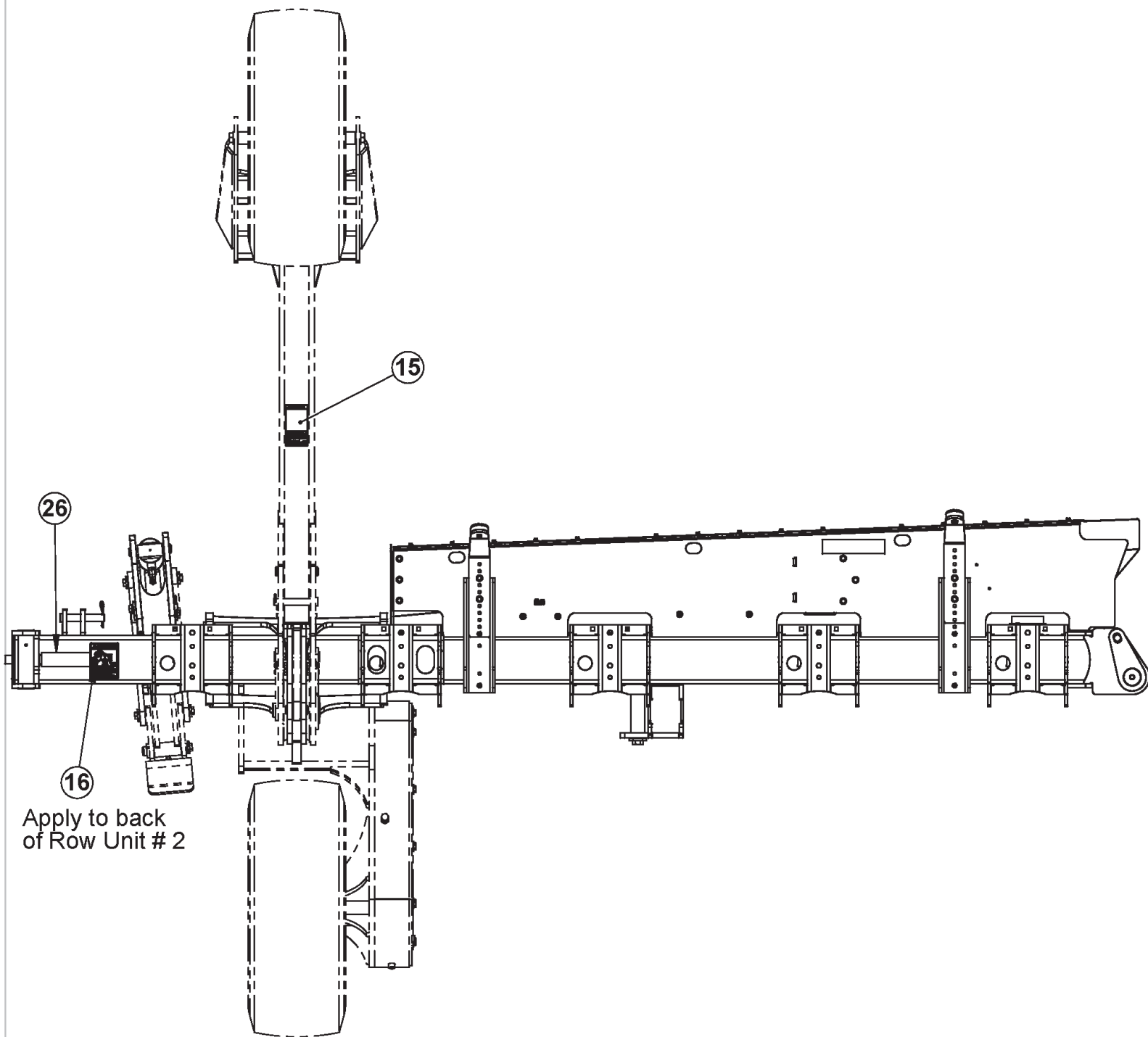
TA01758 Assy, 2000 16R30 LH Wing Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	1	
2	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
3	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
4	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	3	
5	HDWSH-0.89X2.50Y	HD Washer 0.89 x 2.50	2	
6	HDWSH-0.89X3.00Y	HD Washer 0.89 x 3.00	1	
7	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	1	
8	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
9	T0050854	Anti Rotation Insert	2	
10	TW000717	Pin Weldment	1	
11	TW000794	Pin Weldment	1	
12	TW001375	Widmt, 16R30 LH Wing	1	
13	TW001380	Pin Weldment	1	
14	TA01760	Assy, 16R30 LH Wing Shield	1	
15	TA01807	Assy, 16R30 LH Wing PP	1	
16	TA01753	Assy, LH Wing Lift	1	
17	73368118	Cap, Case IH 7x7 Tube	1	
18	TA01765	Assy, Wing Wheel	1	
19	NLNUT-0.625-18Y8	Nut, Nylock-5/8-18-YZ8	1	
20	HCLMP-SAE-512SS	HClamp-SAE-512-SS	1	
21	T0052826	Decal, Notice Trans Lock	1	
22	T0051588	Decal, Warning - Crush Hazard	1	
23	T0053939	Decal, Warn Crsh Wng Whl Set	1	
24	T0053942	Decal, Danger-Wing Crsh Hzd	1	
25	T0053715	Decal, Warn Crush Haz Crdl Lift	1	
26	T0051729	Decal, Reflector, Yellow-2x9	2	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

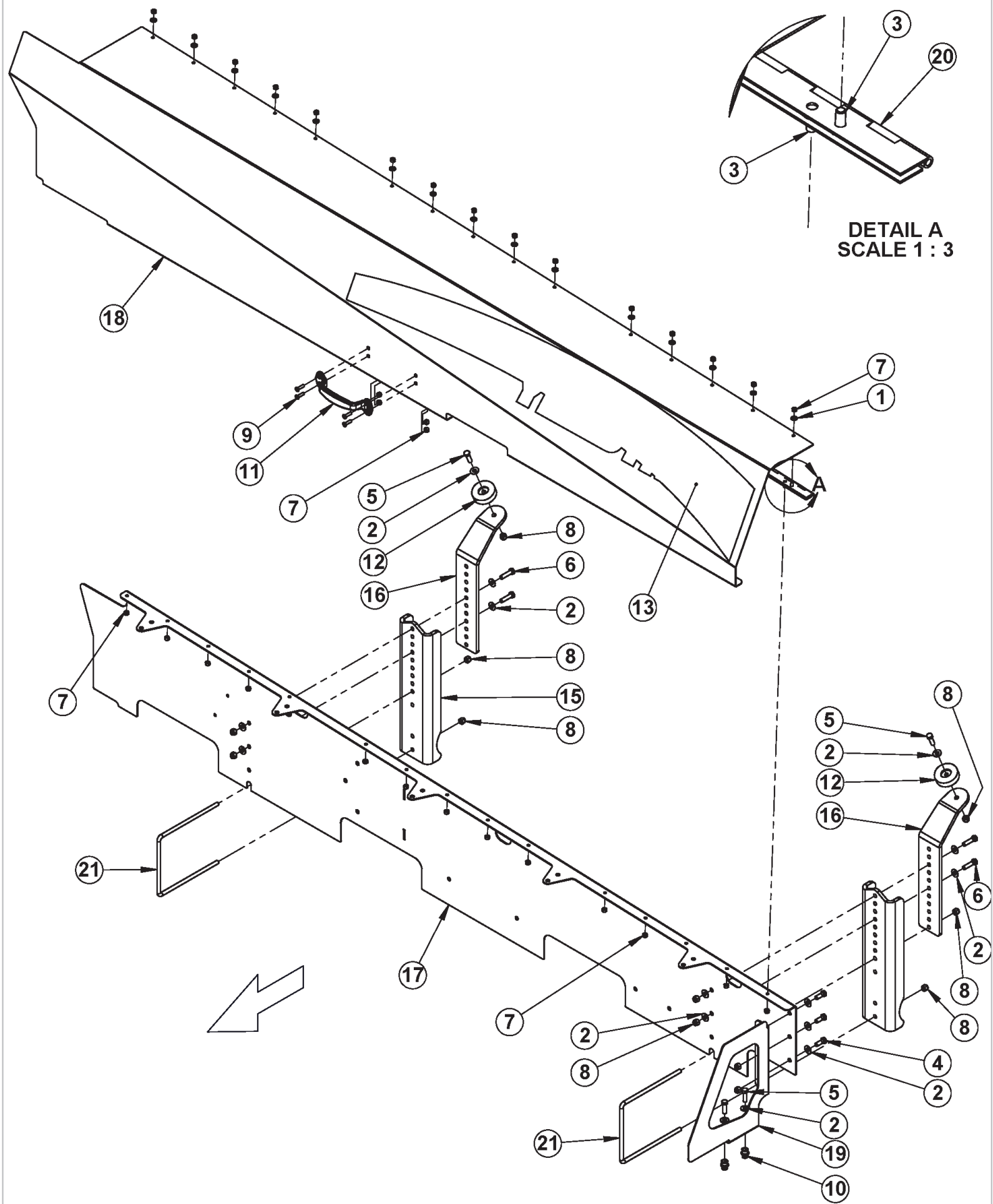




Apply to back
of Row Unit # 2

TA01758 Assy, 2000 16R30 LH Wing Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
15	T0053939	Decal, Warn Crsh Wng Whl Set	1	
16	T0053942	Decal, Danger-Wing Crsh Hzd	1	
25	T0053715	Decal, Warn Crush Haz Crdl Lift	1	
26	T0051729	Decal, Reflector, Yellow-2x9	2	

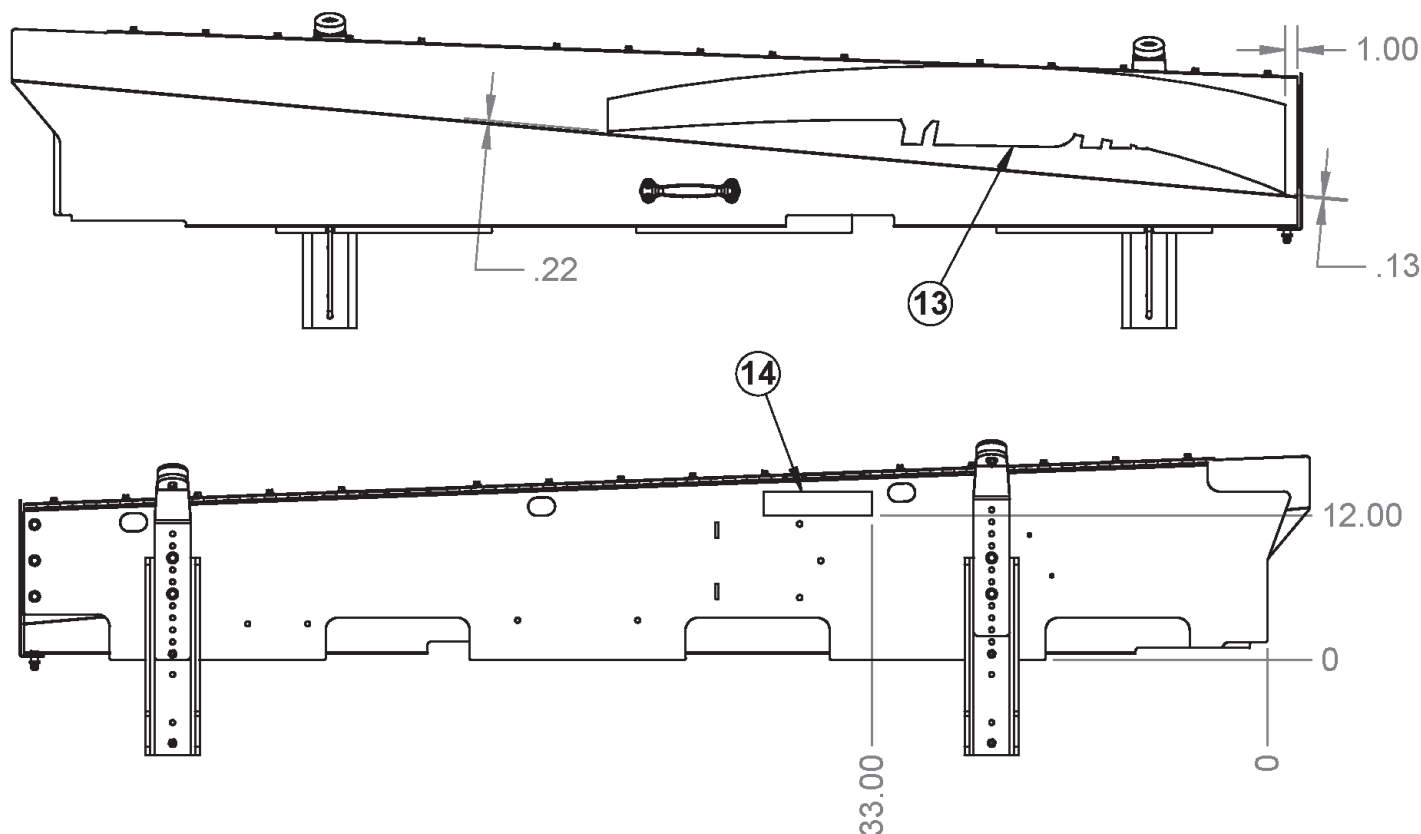


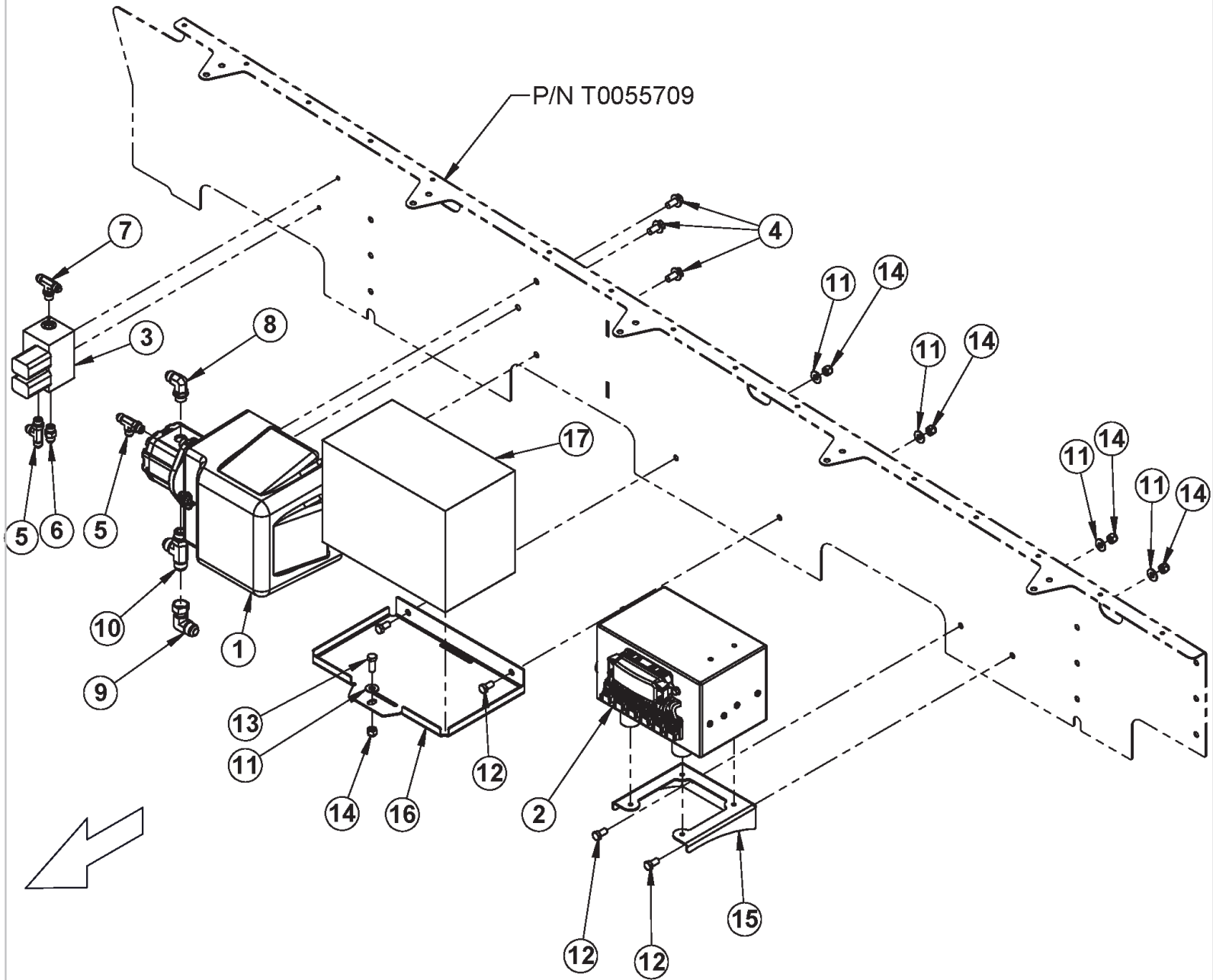
TA01760 Assy, 16R30 LH Wing Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	15	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	16	
3	HB-0.250-20X0.50Y8	Bolt, Hex Hd 1/4-20x1/2-YZ8	30	
4	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	3	
5	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	4	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	4	
7	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	34	
8	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	13	
9	OHPMS-.250-20X1.00SS	Screw, Ovl Hd Mach 1/4-20x1 SS	4	
10	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
11	T0051467	Handle	1	
12	T0051481	Rubber Stop	2	
13	T0051664	Decal, YieldTrac With Arch LH	1	
14	T0051729	Decal, Reflector, Yellow-2x9	1	
15	T0054582	Shield Mount	2	
16	T0054583	Mount, Shield Bumper	2	
17	T0055709	Panel, 16R30 LH Wing Back	1	
18	T0055711	Shield, 16R30 LH Wing	1	
19	T0055715	Cap, LH Shield End	1	
20	TA00851	Piano Hinge	3	
21	UB-0.38X7.0X7.0-SY2	3/8 X 7 X 7 U Bolt	2	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



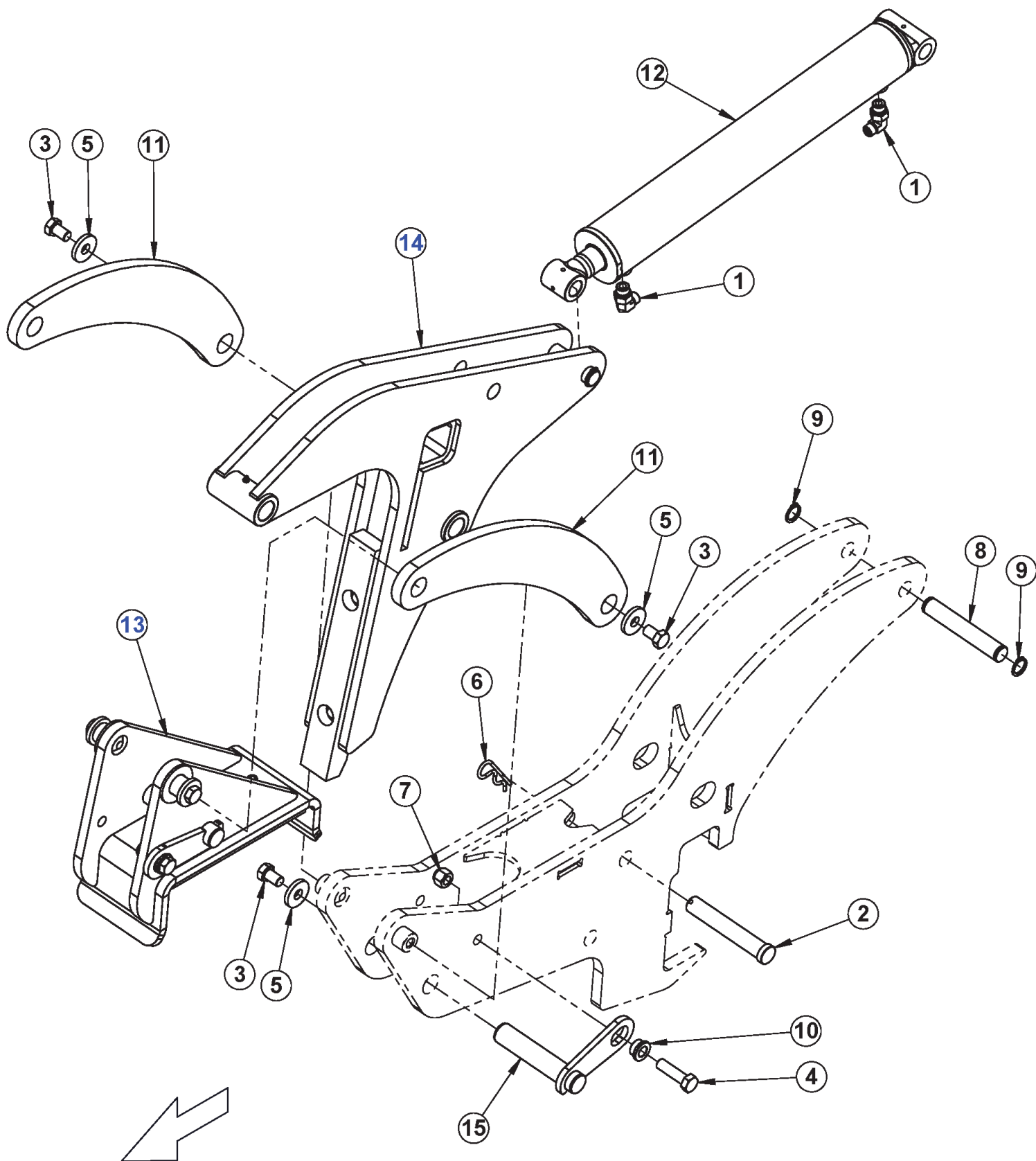


TA01807 Assy, 16R30 LH Wing PP

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47687209	Asssy, Alternator	1	
2	47714576	Assy, PDM	1	
3	48059411	Valve, Hyd Row Lift	1	
4	86050286	Bolt, M10x 20mm	3	
5	AD-06MJ-06MB-06MJ	AD-06MJ-06MB-06MJ	2	
6	AD-06MJ-06MB	ADAPTER 06MJ-06MB	1	
7	AD-06MJ-06MJ-06MB	ADAPTER 06MJ-06MJ-06MB TEE	1	
8	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	1	
9	AD-10MJ-10FJX-90	ADAPTER 10MJ-10FJX 90	1	
10	AD-10MJ-10MB-10MJ	ADAPTER 10MJ-10MB-10MJ TEE	1	
11	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	5	
12	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	4	
13	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	1	
14	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	5	
15	T0054215	PDM Mount	1	
16	T0055598	Battery Tray	1	
17	T0055644	Battery, Group 31	1	

Note:

1. $T=XXX$ = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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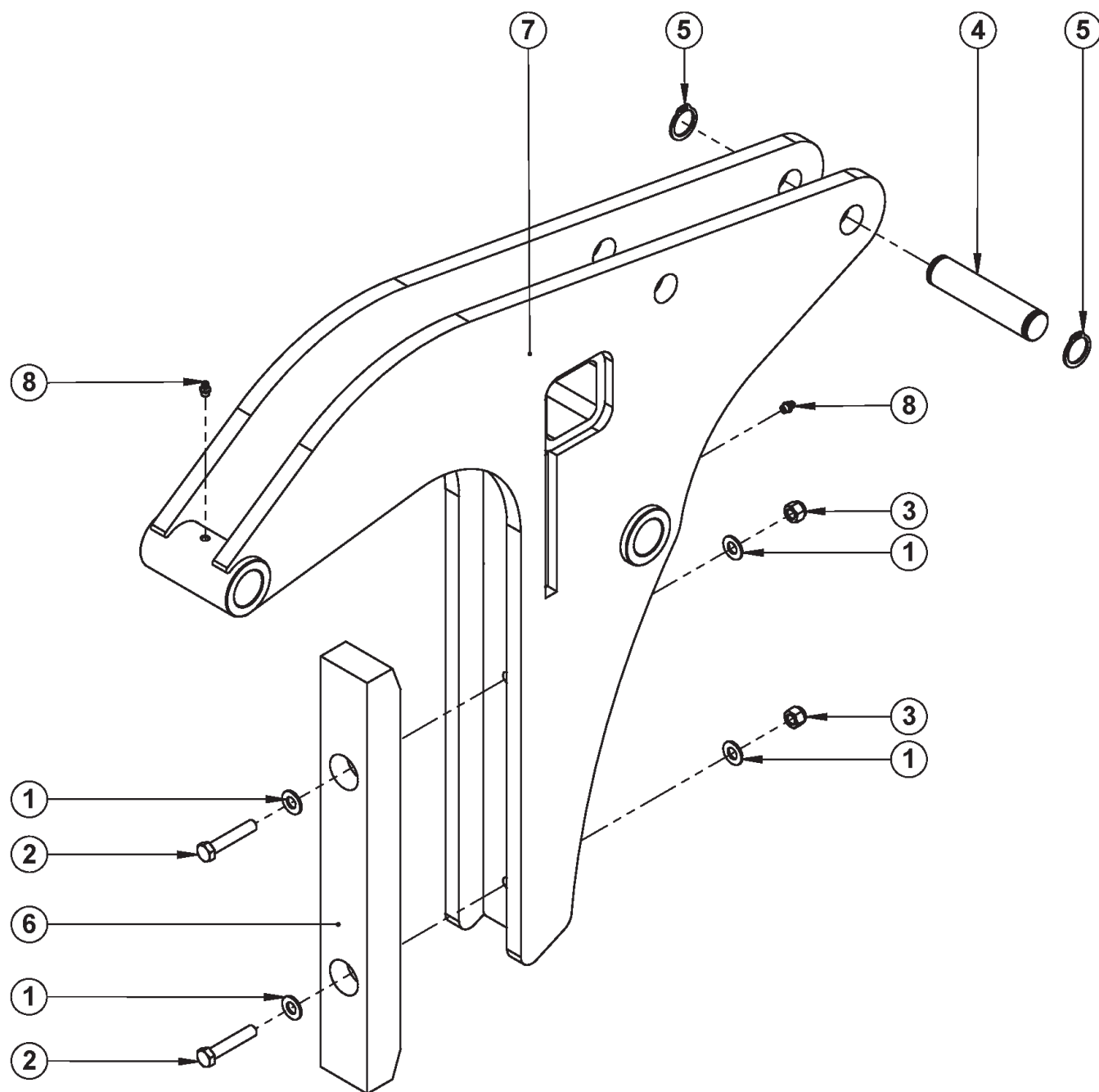


TA01753 Assy, LH Wing Lift

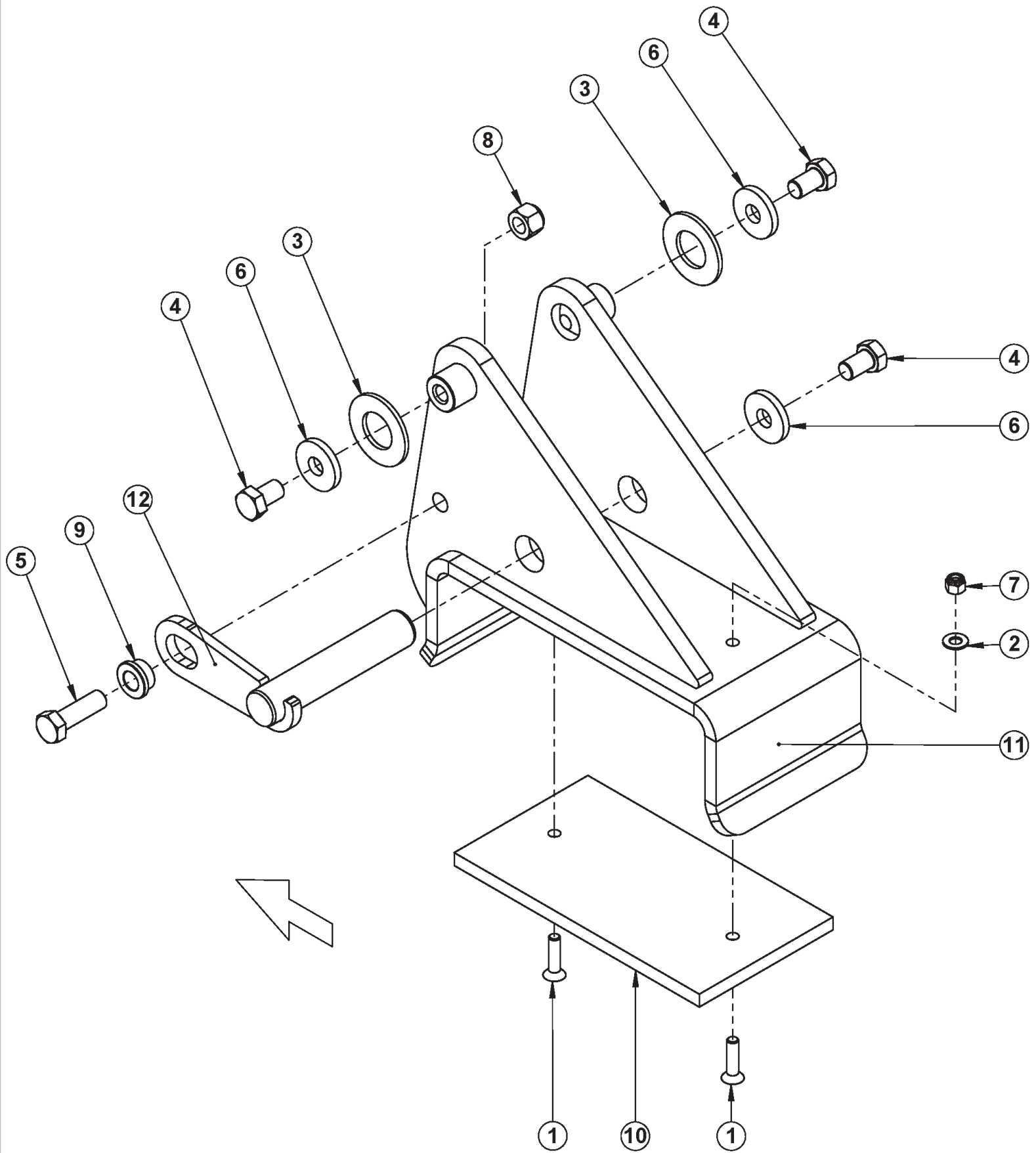
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MFS-08MB-90	Adapter, 06MFS-08MB 90	2	
2	CLPIN-1.000X6.00Y	Clevis Pin, 1x6 YZ	1	
3	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
4	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
5	HDWSH-0.64X1.75Y	HD Washer 41/64x1-3/4 YZ	3	
6	HPINCLIP-1.000Y	Hair Pin Clip, 1 YZ	1	
7	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	1	
8	PIN-1.000X5.75Y	Pin, 1x5-3/4 YZ	1	
9	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	2	
10	T0050854	Anti Rotation Insert	1	
11	T0055674	Linkage, Wing Lift	2	
12	TA00963	Cylinder, Hyd 3.00X20.00	1	
13	TA00979	Assy, Wing Engagement	1	
14	TA00980	Wing Lift Assy	1	
15	TW000906	Pin Weldment	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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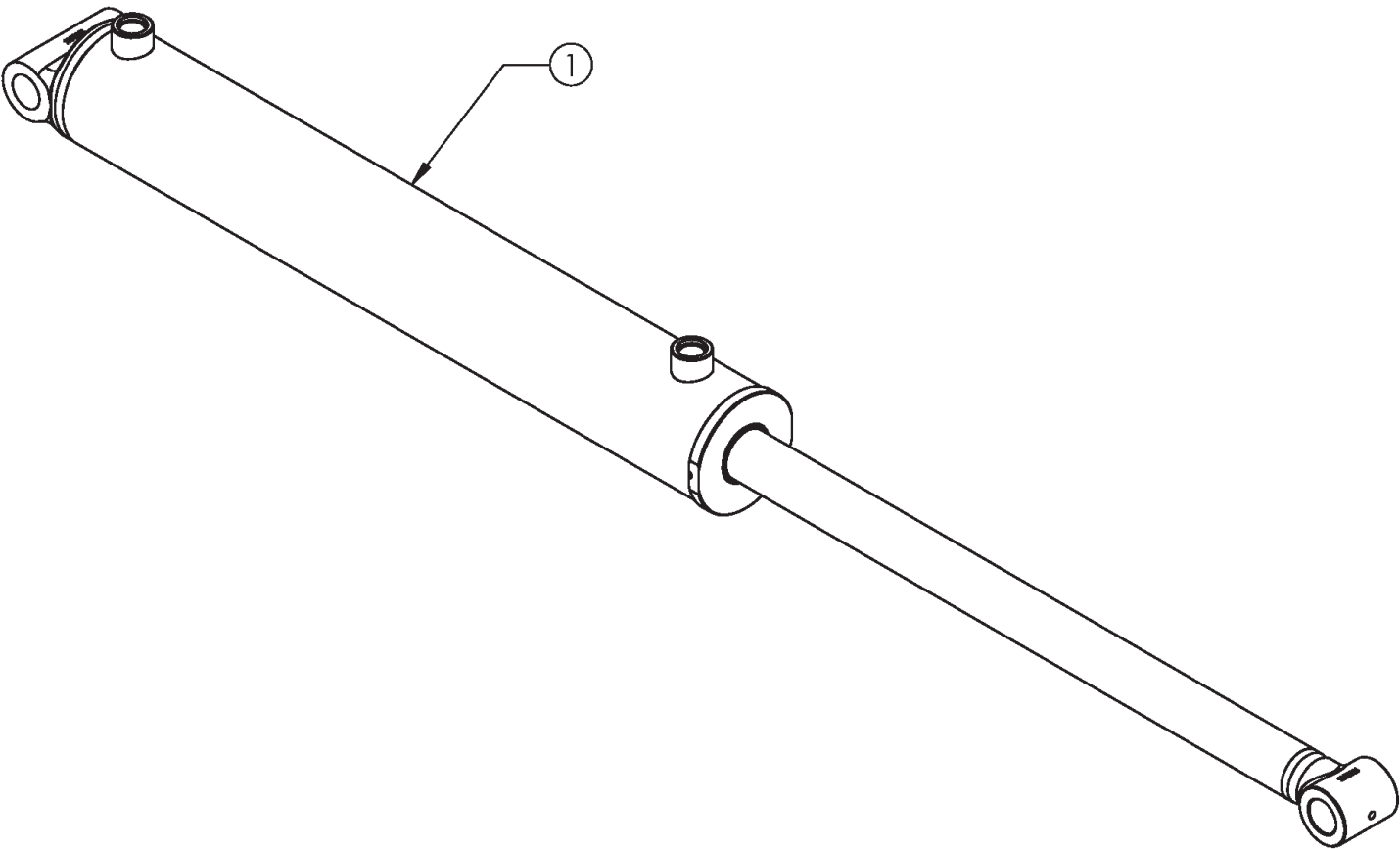


TA00980 Wing Lift Assy				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
2	HB-0.375-16X2.00Y8	Bolt, Hex Hd 3/8-16x2-YZ8	2	
3	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	
4	PIN-1.000X4.13Y	PIN-1.000X4.13Y	1	
5	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	2	
6	T0052755	Lift Pad	1	
7	TW000901	Wldmt, Wing Lift	1	
8	ZERK-0.250-28	Zerk, 1/4-28	2	



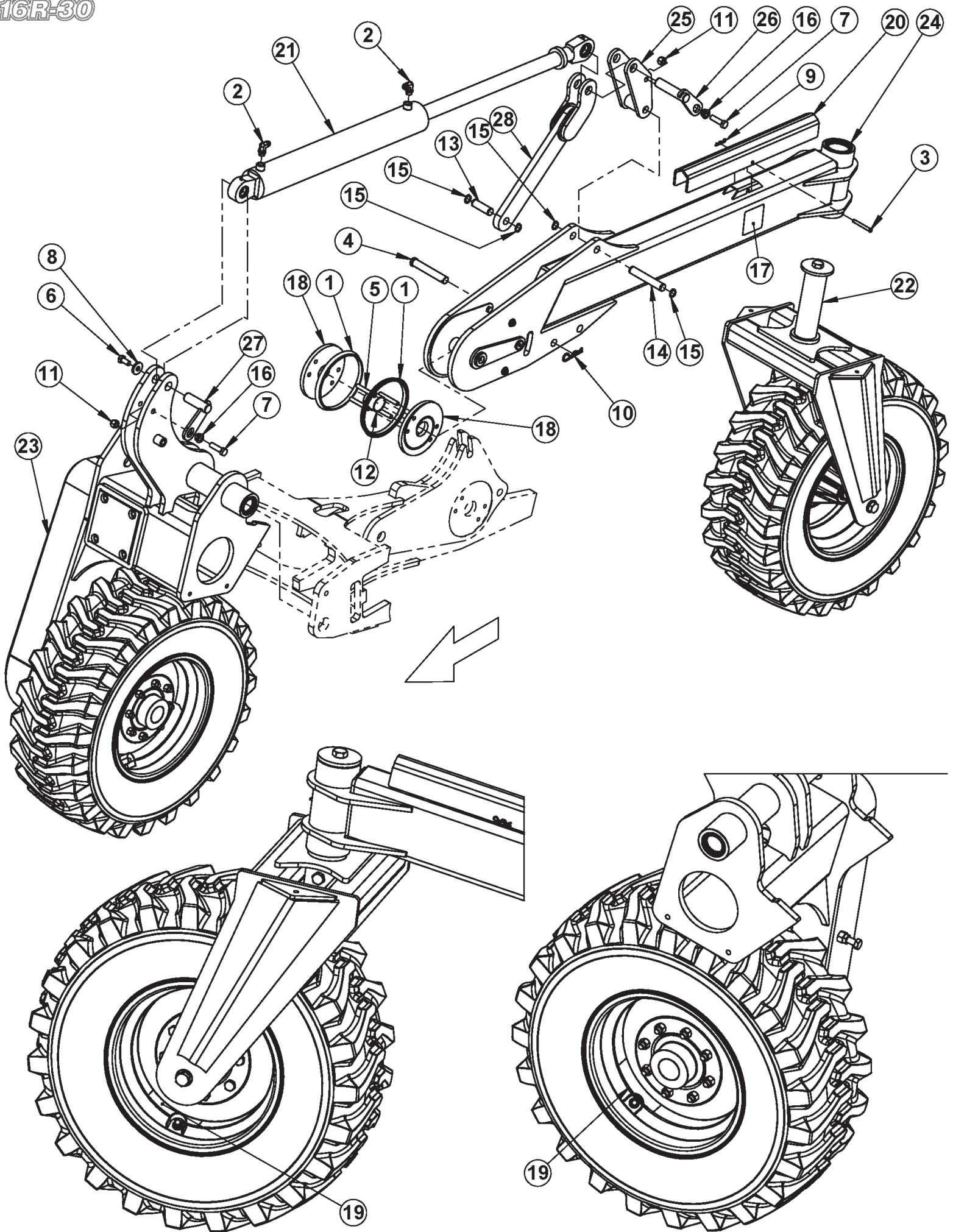
TA00979 Assy, Wing Engagement

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FHSCS-0.375-16X1.50Y8	FHCS 3/8-16x1-1/2-YZ	2	
2	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
3	FW-SAE-1.250Y	Washer, Flat-SAE-1-1/4-YZ	2	
4	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
5	HB-0.625-11X2.00Y8	Bolt, Hex Head-5/8-11x2-YZ8	1	
6	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	3	
7	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	
8	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
9	T0050854	Anti Rotation Insert	1	
10	T0053191	Pad, Wing Lift	1	
11	TW000900	Wldmt, Wing Engagement	1	
12	TW000906	Pin Weldment	1	



TA00963 Cylinder, Hyd 3.00X20.00				
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0053106	Cylinder Hydraulic Base	1	
2	TA00963	Cylinder	1	

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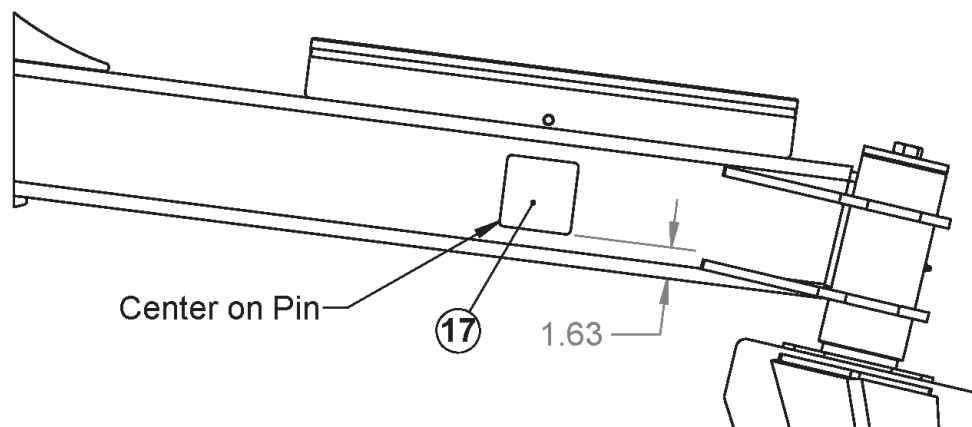


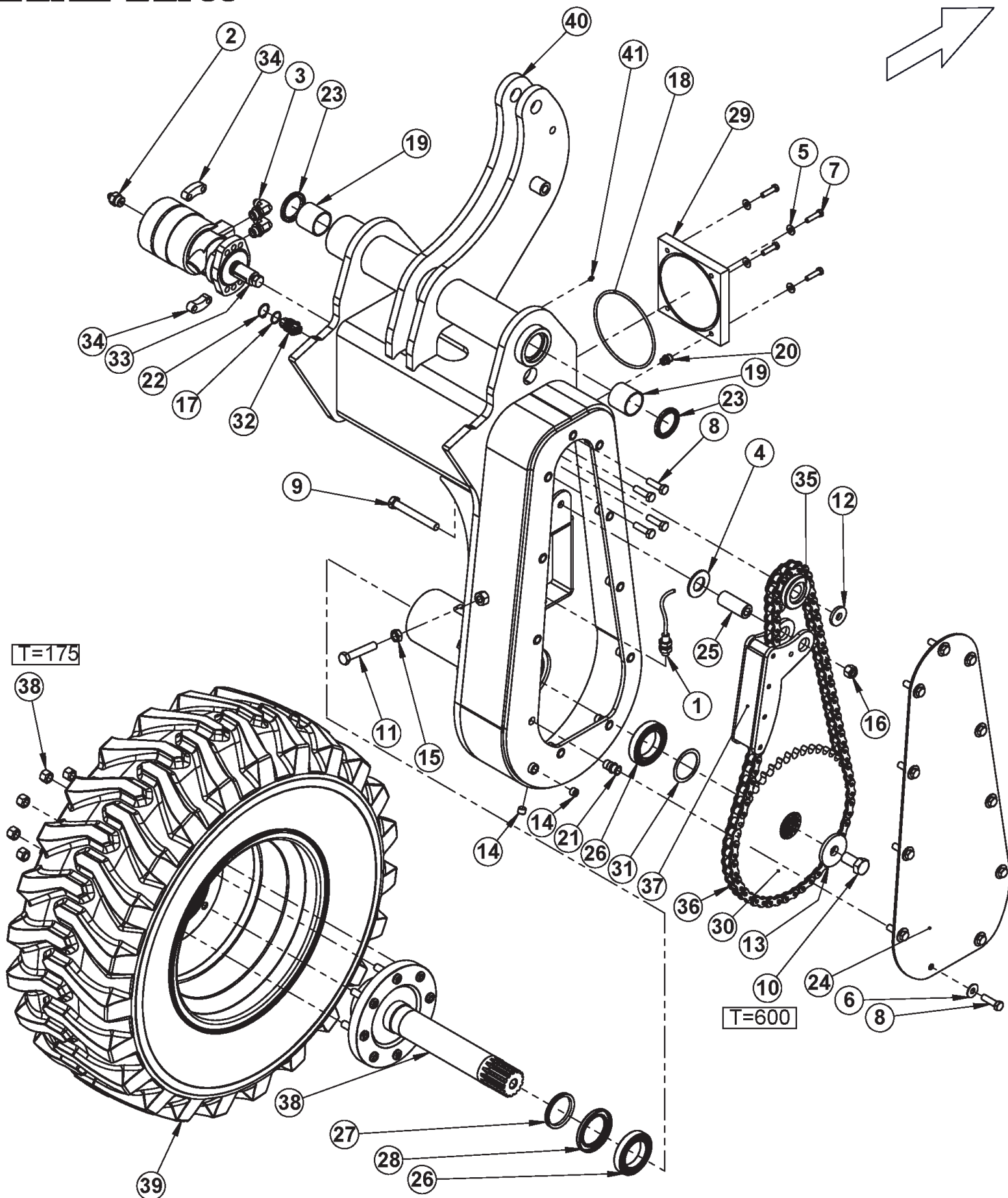
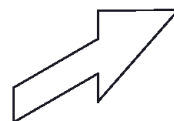
TA01765 Assy, Wing Wheel

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	433478A1	Seal, Rubber	2	
2	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	2	
3	CLPIN-0.375X3.25Y	Clevis Pin, Ø3/8" X 3-1/4 YZ	1	
4	CLPIN-1.000X6.00Y	Clevis Pin, Ø1" X 6" YZ	1	
5	DPIN-0.500X3.500C	Dowell Pin, Ø1/2"x3-1/2	4	
6	HB-0.625-11X1.25Y8	Bolt, Hex Head-5/8-11x1.25-YZ8	1	
7	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	2	
8	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	1	
9	HPINCLIP-0.313 YZ	Hair Pin Clip-Ø5/16" YZ	1	
10	HPINCLIP-1.000Y	Hair Pin Clip-Ø1.0000" YZ	1	
11	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
12	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	1	
13	PIN-1.000X2.88Y	PIN-1.000X2.88Y	1	
14	PIN-1.000X5.75Y	Pin-1.0000x5.750-YZ	1	
15	SRING-EXT-HD-1.00Y	SRING-EXT-HD-1.00Y	4	
16	T0050854	Anti Rotation Insert	2	
17	T0051737	Decal, Warn CrshHaz Serv WngWhl	1	
18	T0051869	Plate, Grease Friction	2	
19	T0054597	Decal, 30 psi & 175 Lug Torque	2	
20	T0054600	Channel - Wing Cylinder Stop	1	
21	TA01182	Cylinder, Hyd 3.75X26.75 Reph	1	
22	TA01378	Assy, Caster Wheel	1	
23	TA01766	Assy, Single Front Wing Wheel	1	
24	TA01769	Assy, Rear Caster Arm	1	
25	TW000903	Wldmt, Link	1	
26	TW000905	Pin Weldment	1	
27	TW001106	Pin Weldment	1	
28	TW001370	Wldmt, Dogbone Link	1	

Note:

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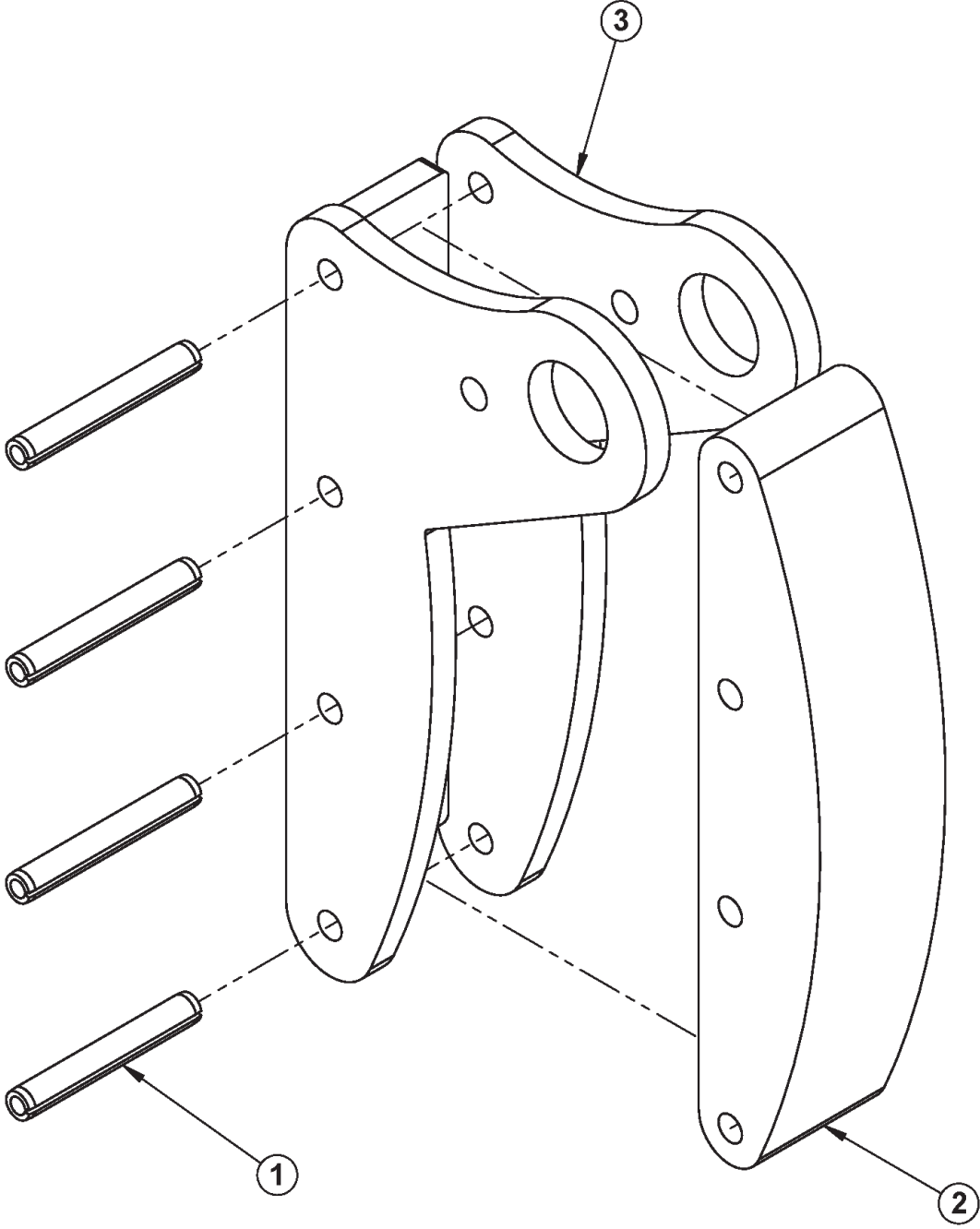


TA01766 Assy, Single Front Wing Wheel

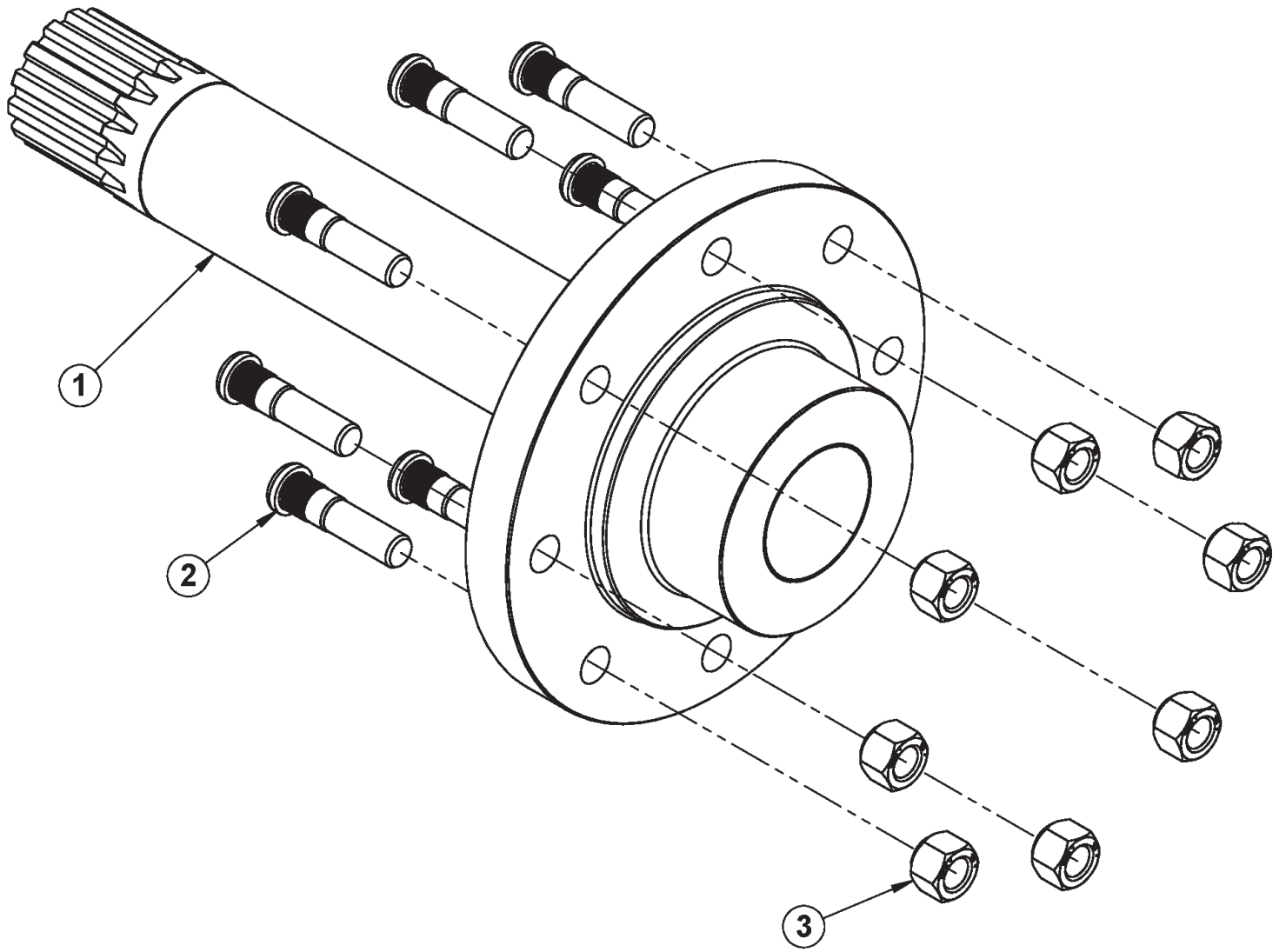
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	324049A1	Sensor, Hall Effect Zero Speed	1	
2	AD-06MJ-10MB	ADAPTER 06MJ-10MB	1	
3	AD-08MJ-10MB-90	ADAPTER 08MJ-10MB 90	2	
4	FW-SAE-1.250Y	Washer, Flat-SAE-1-1/4-YZ	1	
5	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	4	
6	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	11	
7	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	4	
8	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	15	
9	HB-0.625-11X5.00Y8	Bolt, Hex Head-5/8-11x5.0-YZ8	1	
10	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	1	
11	HBFT-0.625-11X3.50Y8	HBolt-0.6250-11x3.500-FT-YZ8	1	
12	HDWSH-0.64X1.75Y	HD Washer 0.64 x 1.75	1	
13	HDWSH-0.89X3.00Y	HD Washer 0.89 x 3.00	1	
14	HSPLUG-0.375-NPTFC	Plug, Hex Skt 3/8-18 NPTF CZ	2	
15	JNUT-0.625-11Y8	Nut, Jam-5/8-11-YZ8	1	
16	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	1	
17	ORING-1.130X.103	O-Ring, Ø1.130OD X Ø.103	1	
18	ORING-7.375X.188-N	O-Ring, Ø7.38ODxØ.188 Nitrile	1	
19	PB-2.000X2.25X2.00	Polylube Bush, Ø2.00xØ2.25x2.00	2	
20	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	4	
21	RN-0.500-13-.35-.50Y	Rivnut, 1/2-13 .350-.500 GR	11	
22	SRING-EXT-1.13Y	Ring, Retaining Ext-1.125"	1	
23	T0051585	2.00 Grease Seal	2	
24	T0052065	Cover, Chaincase	1	
25	T0052084	Bushing, Tensioner Pivot	1	
26	T0053142	Ball Bearing, 65mm	2	
27	T0053269	Face Seal	1	
28	T0053270	Seal	1	
29	T0053552	Slider Block	1	
30	T0054261	45 Tooth 80 Chain Sprocket	1	
31	T0054282	Drive Wheel Spacer	1	
32	T0055776	Connector, Speed Sensor Plug	1	
33	T0054948	Motor, Wheel Drive 470cc	1	
34	T0054962	Plate, Motor Retainer	2	
35	T0055808	Sprocket, 80C12 Machined	1	
36	T0055183	80 Pitches 80 Pitch Chain	1	
37	TA01089	Tensioner, Wheel Drive	1	
38	TA01369	Hub Assy	1	
39	TA01371	Wheel Assy	1	
40	TW001383	Wdmt, Single Front Wing Wheel	1	
41	ZERK-0.250-28	Zerk, 1/4-28	1	

Note:

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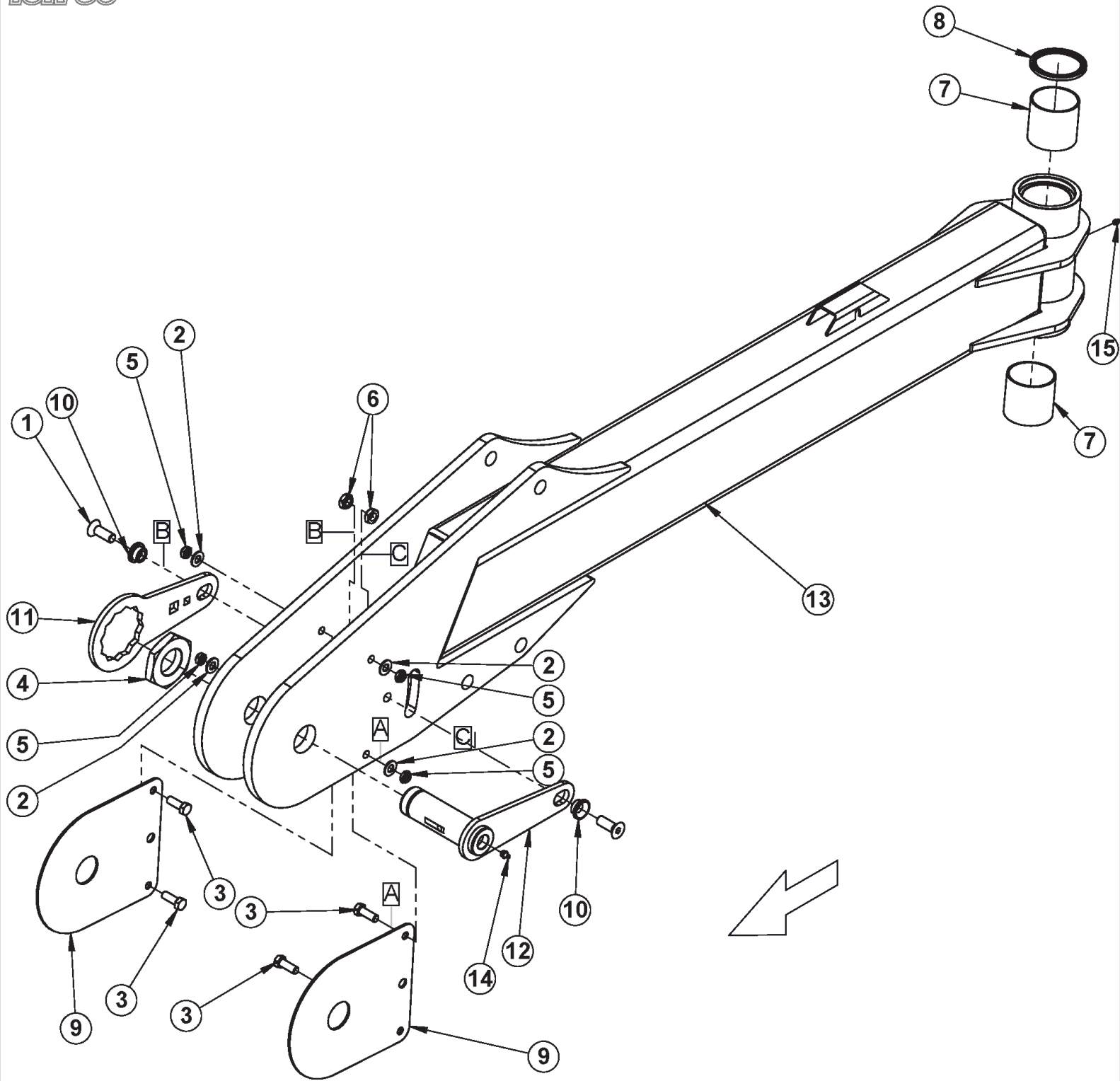


TA01089 Tensioner, Wheel Drive				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	RPIN-.375X2.75	Pin, Spring 3/8x2-3/4	4	
2	T0052064	Slide, Chain Tensioner	1	
3	TW001031	Tensioner Weldment	1	



TA01369 Hub Assy

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001224	Axle, 15/20 Wing Wheel	1	
2	WS-0.625-18X2.50C8	Stud, Wheel 5/8-18 Gr8 CZ	8	
3	WHNUT-0.625-18C8	Nut, Wheel 5/8-18 Gr8 CZ	8	

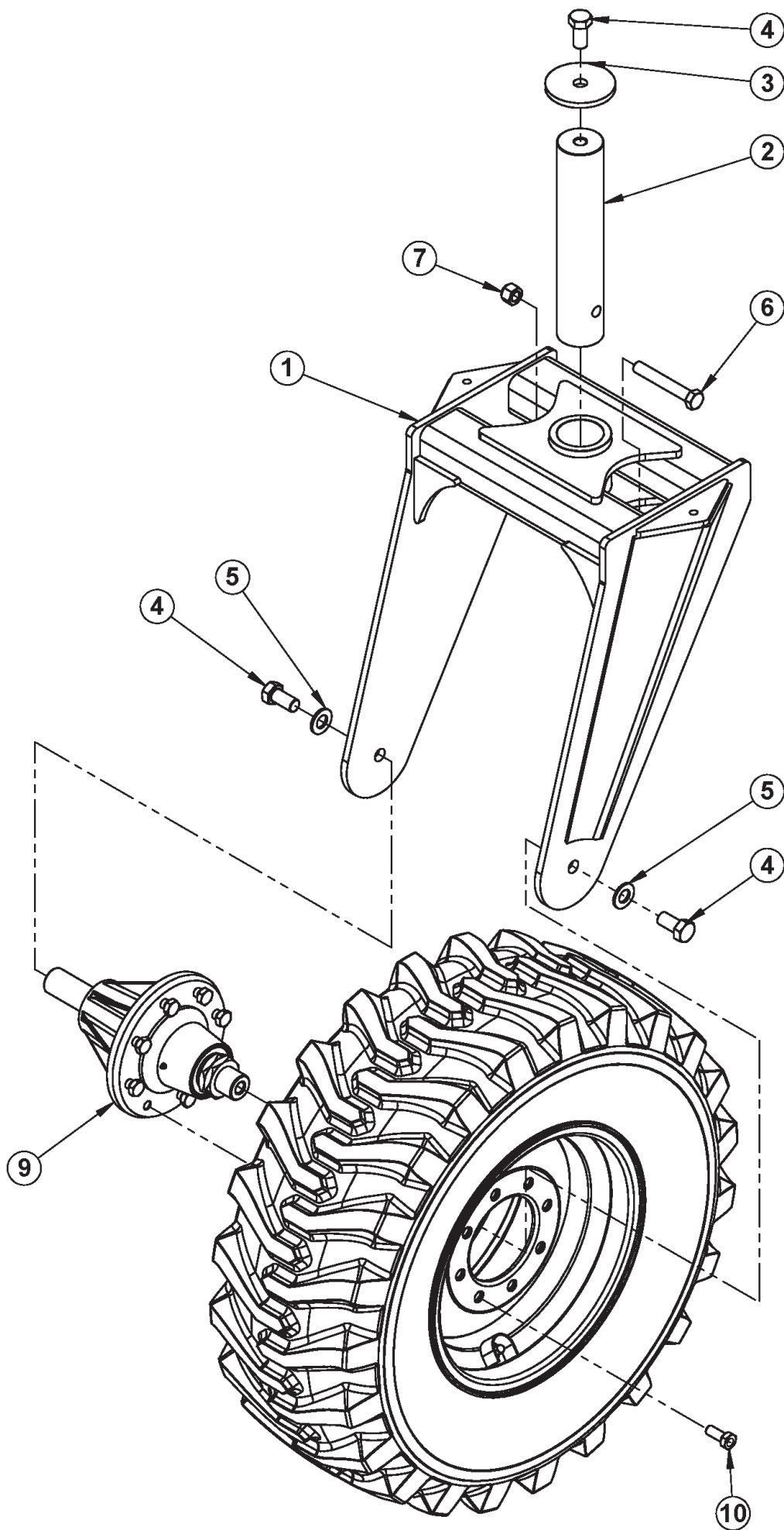


TA01769 Assy, Rear Caster Arm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	FHSCS-0.625-11X1.75Y8	FHSHCS 5/8-11x1-3/4-YZ	2	
2	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
3	HB-0.500-13X1.38Y8	Bolt, Hex Hd 1/2-13x1-3/8 YZ8	4	
4	JNUT-2.0-12x.60Y5	JNut-2.0000-12 x .60-YZ8	1	
5	NLJNUT-0.500-13Y8	Nut, Nylock Jam 1/2-13 YZ8	4	
6	NLJNUT-0.625-11Y8	Nut, Nylock Jam-5/8-11-YZ8	2	
7	PB-3.000X3.25X3.00	Polygon Bushing 3.000 x 3.25 x 3.00	2	
8	T0051586	3.00 Grease Seal	1	
9	T0051868	Plate, Friction Wear	2	
10	T0054627	Anti Rotation Insert	2	
11	T0054628	Plate, Locking 12Pt	1	
12	TW001201	Pin Weldment	1	
13	TW001382	Wldmt, Rear Wing Wheel Arm	1	
14	ZERK-0.125-27-NPT	Zerk,-1/8-27-NPT	1	
15	ZERK-0.250-28	Zerk, 1/4-28	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
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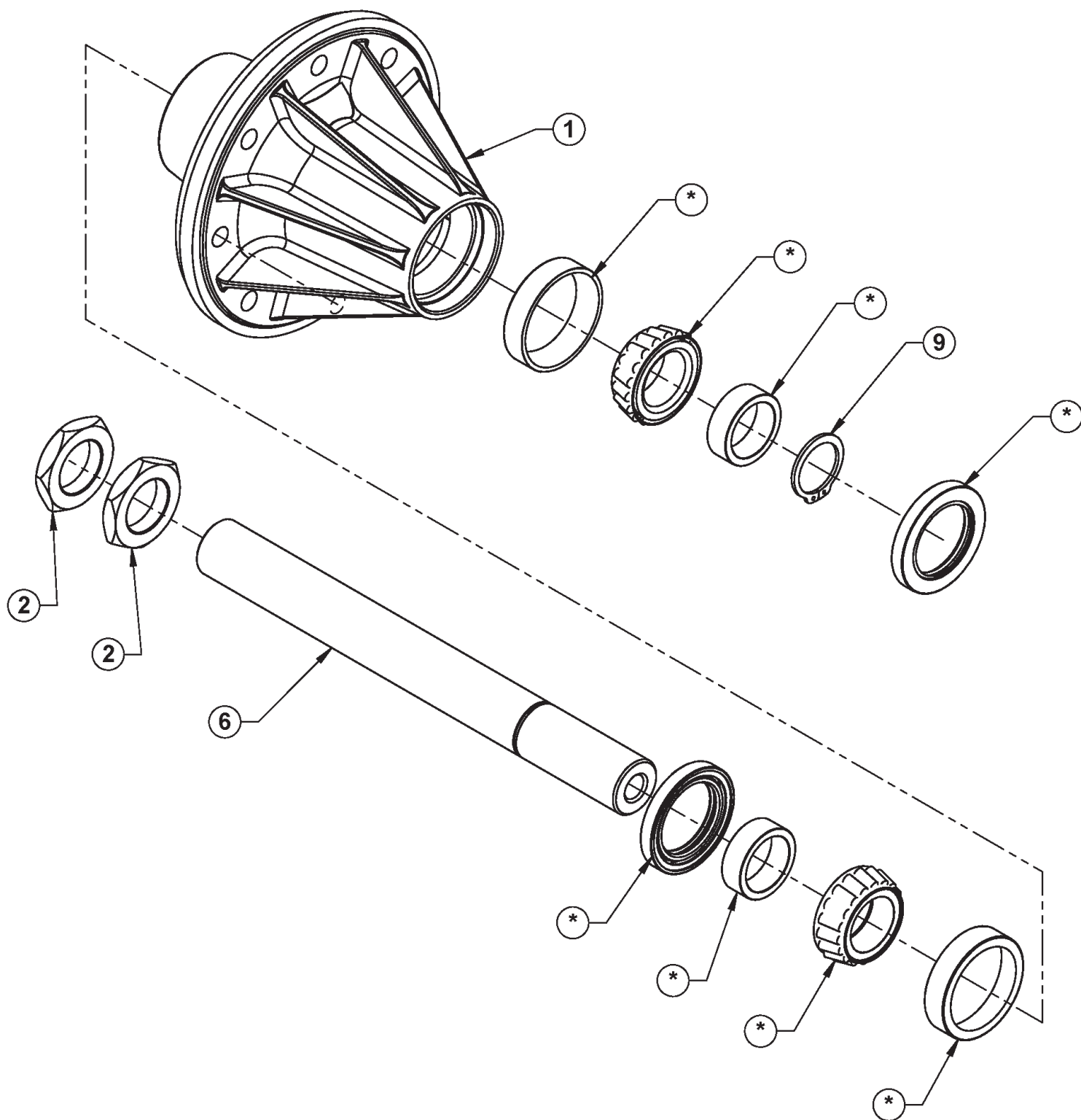


TA01378 Assy, Caster Wheel

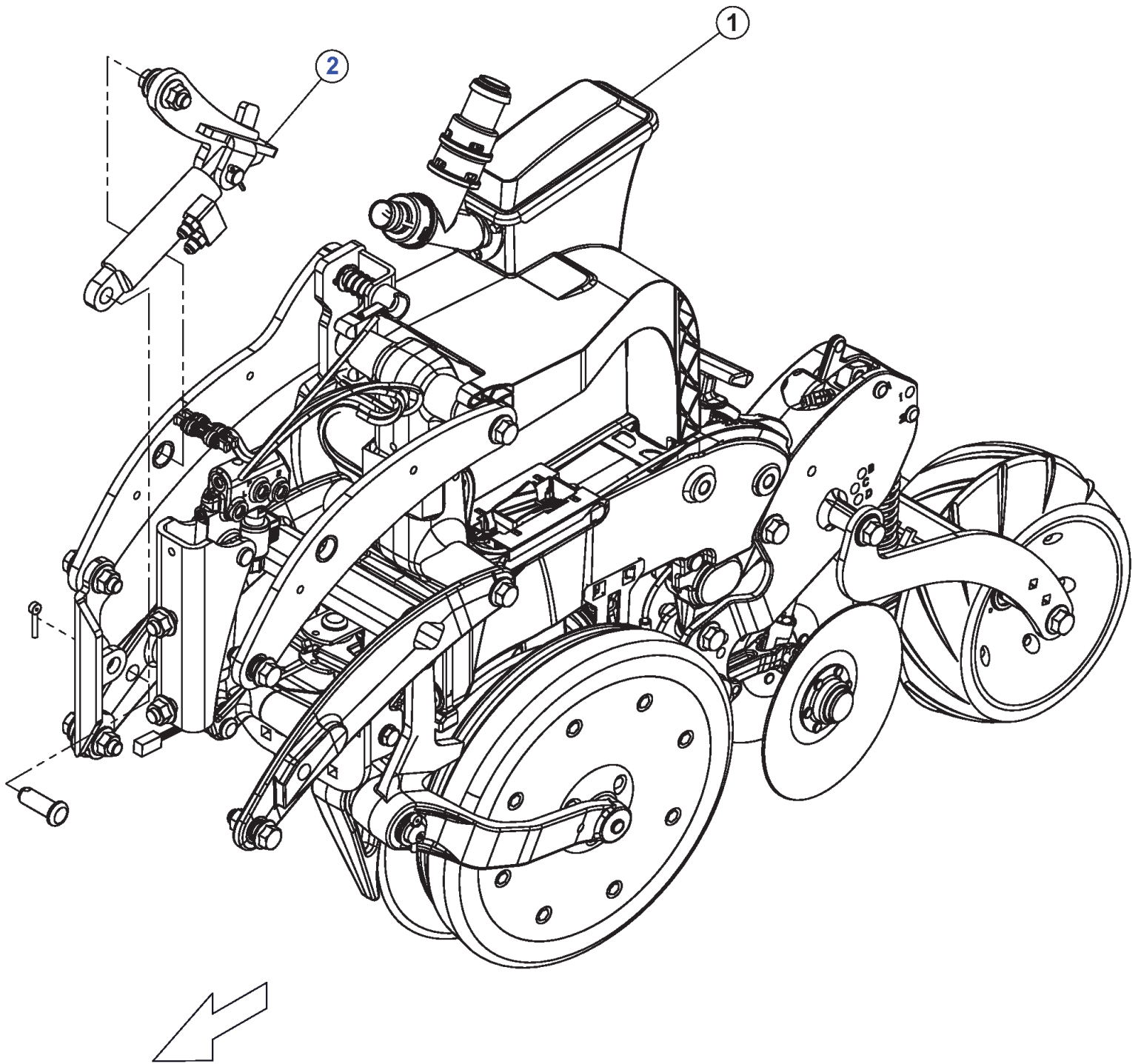
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW000955	Wldmt, Caster	1	
2	T0053461	Caster Shaft	1	
3	HDWSH-0.89X4.50Y	HD Washer .875 x 4.5	1	
4	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	3	
5	FW-SAE-0.875Y	FW-SAE-0.875-YZ	2	
6	HB-0.750-10X5.00Y8	Bolt, Hex Hd 3/4-10x5-YZ8	1	
7	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	1	
8	TA01371	Wheel Assy	1	
9	TA01379	Assy, 8 Bolt Hub	1	
10	WB-0.625-18X1.38C5	Wheel Bolt, 5/8-18X1-3/8 C5	8	175

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



TA01379 Assy, 8 Bolt Hub				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0055787	Hub, 8-Bolt Straddle	1	
2	87504483	Nut, Jam 1-3/4-12UNF Gr5 YZ	2	
3	ZERK-0.250-28	Zerk, 1/4-28	1	
4	T0054400	Bearing Race	2	
5	T0054401	Bearing, Wheel	2	
6	T0054964	Axle, 8-Bolt Straddle Hub	1	
7	T0054403	Hub Spacer	2	
8	T0054404	Seal, Shaft Ø2.25	2	
9	SRING-EXT-HD-1.75Y	Retaining Ring, External 1-3/4 HD YZ	1	

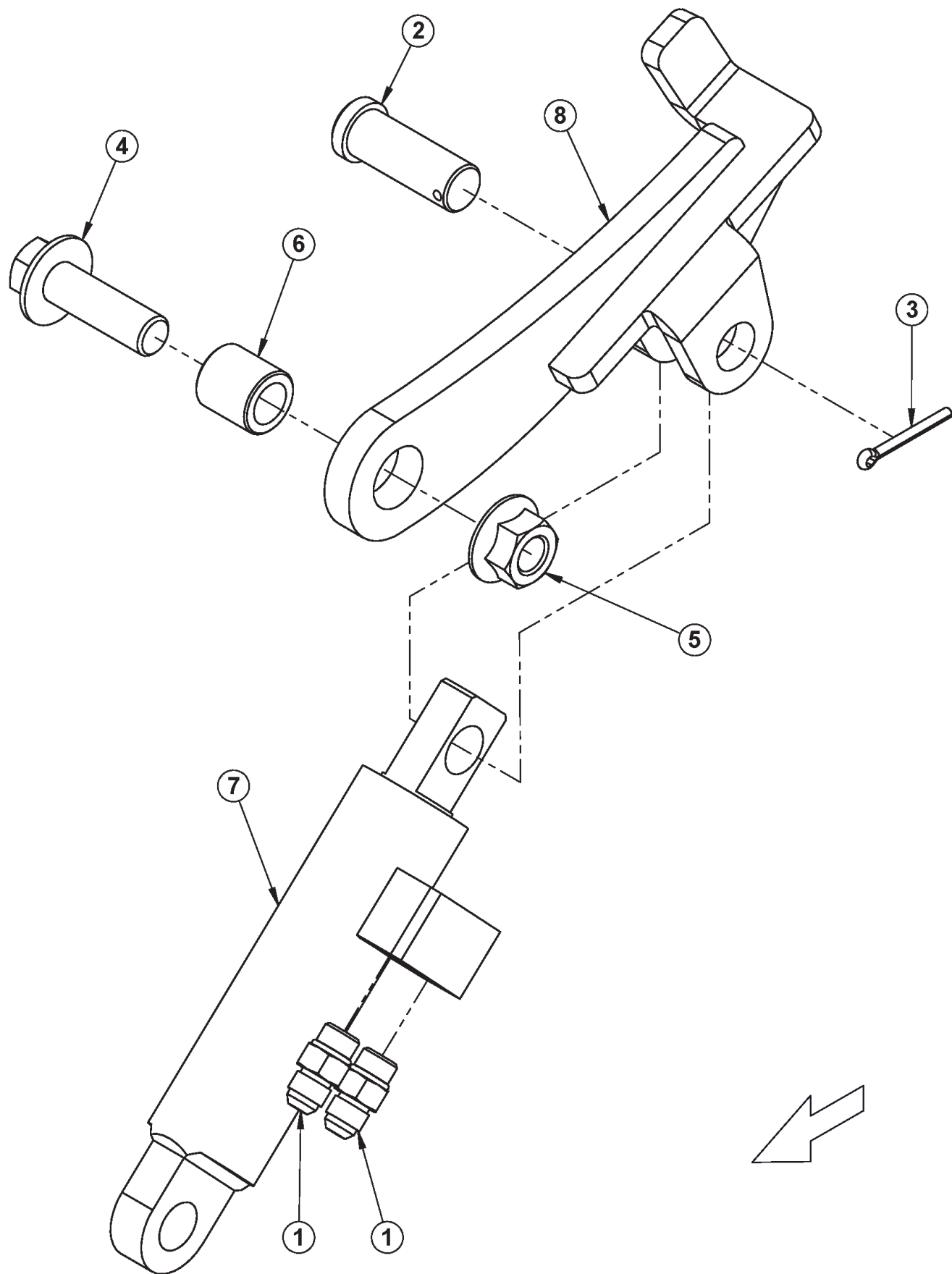


TA01801 2000 LH Row Unit w/RUL

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	48098614	2100 LH Row Unit	1	
2	TA01803	Assy, Hyd Row Lift	1	

Note:

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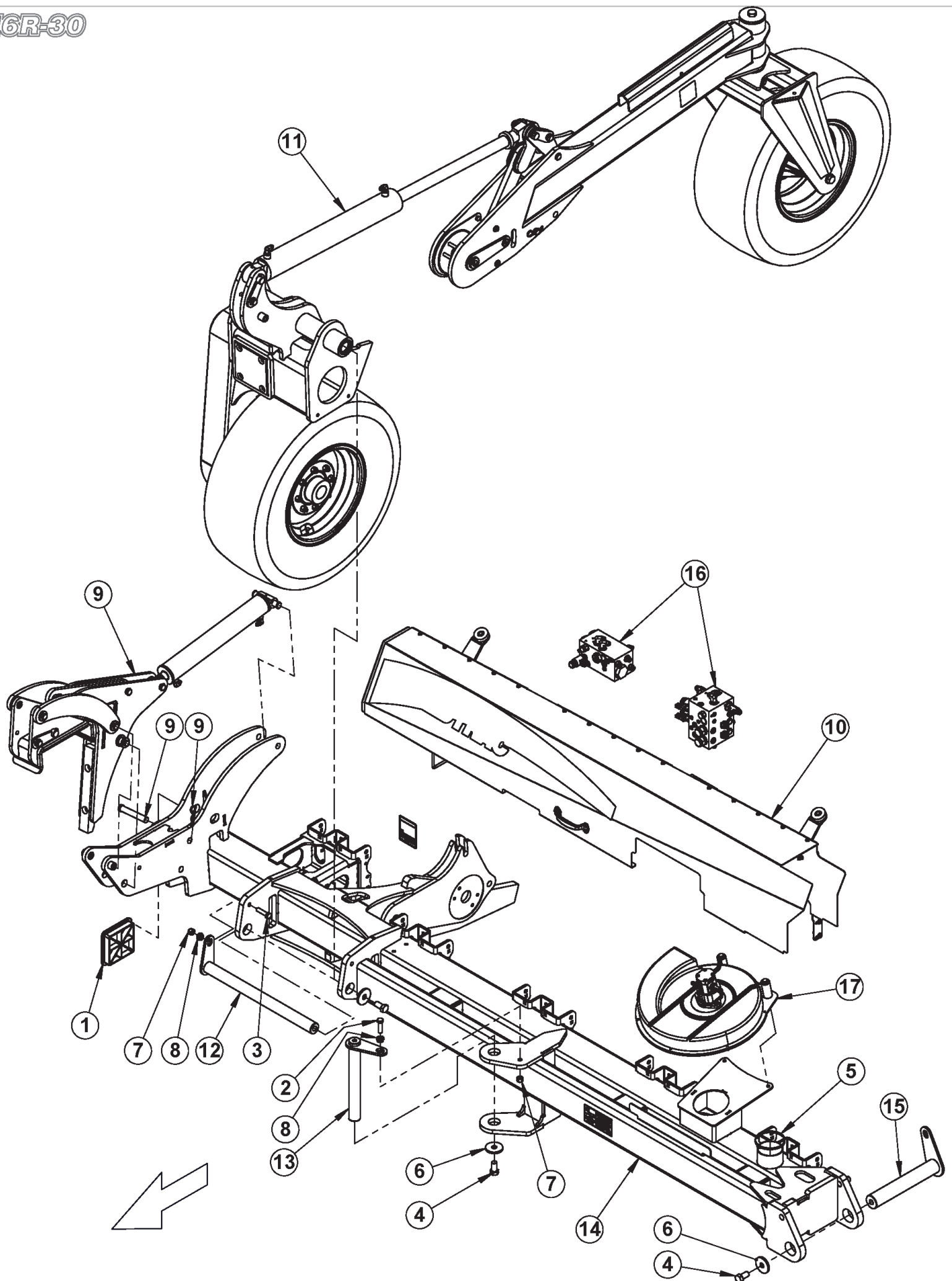


TA01803 Assy, Hyd Row Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MJ-06MB	ADAPTER 06MJ-06MB	2	
2	CLPIN-0.75X2.00C	Clevis Pin, 3/4" x 2.00"	1	
3	CTPIN-0.156X1.50	COTTERPIN 5/32 X 1-1/2	1	
4	FLHB-M16-2.0x50-Y10.9	Bolt, Hex Flange M16-2.0x50-YZ10.9	1	
5	FLTLN-M16-2.0Y10	Nut, TL Hex Flange M16-2.0 YZ10	1	
6	T0055692	Bushing, Pivot	1	
7	TA01736	Cylinder, Hyd 1.18x4.25 SA	1	
8	TW001372	Wldmt, Row Lift Arm	1	

Note:

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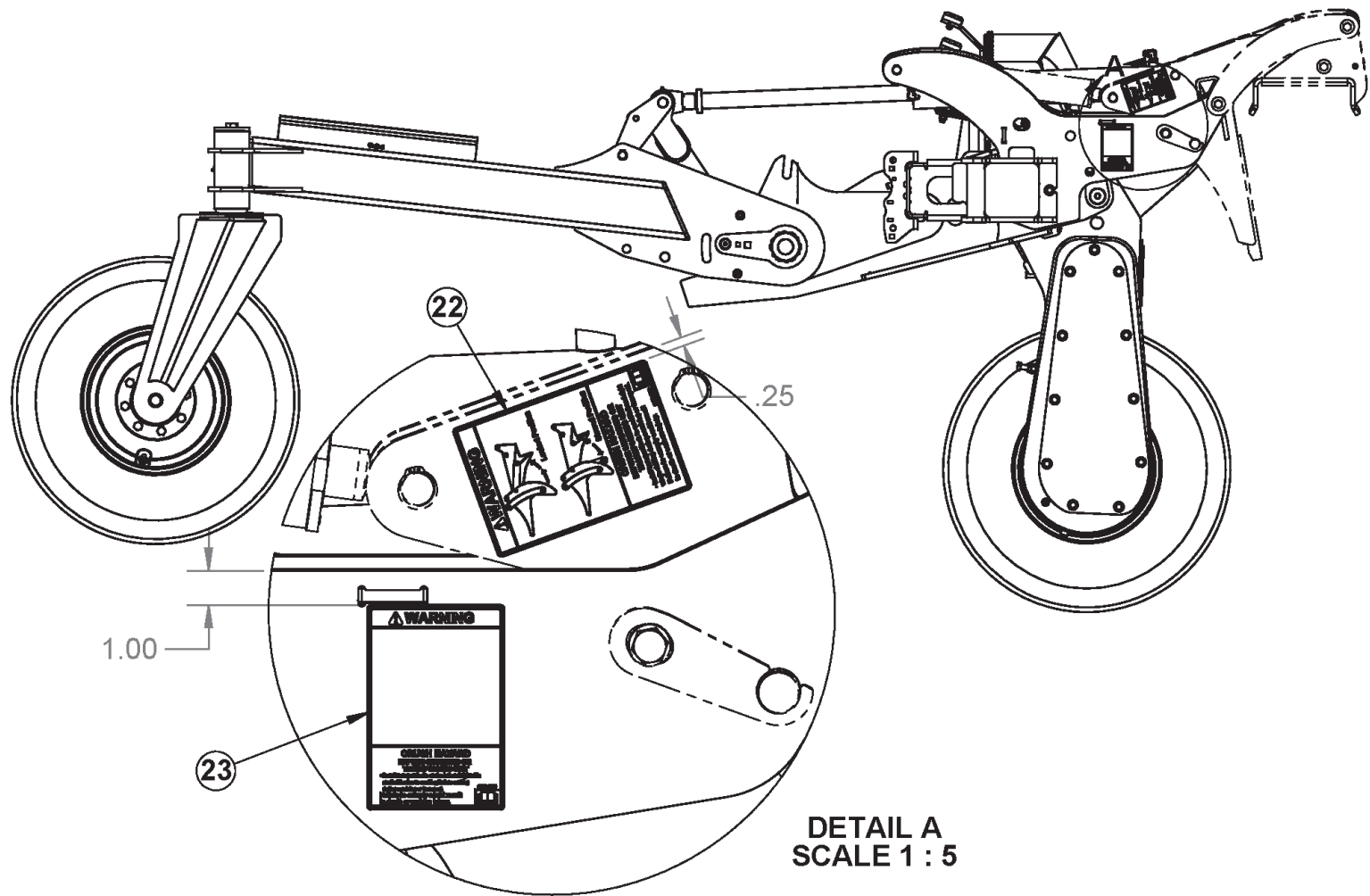


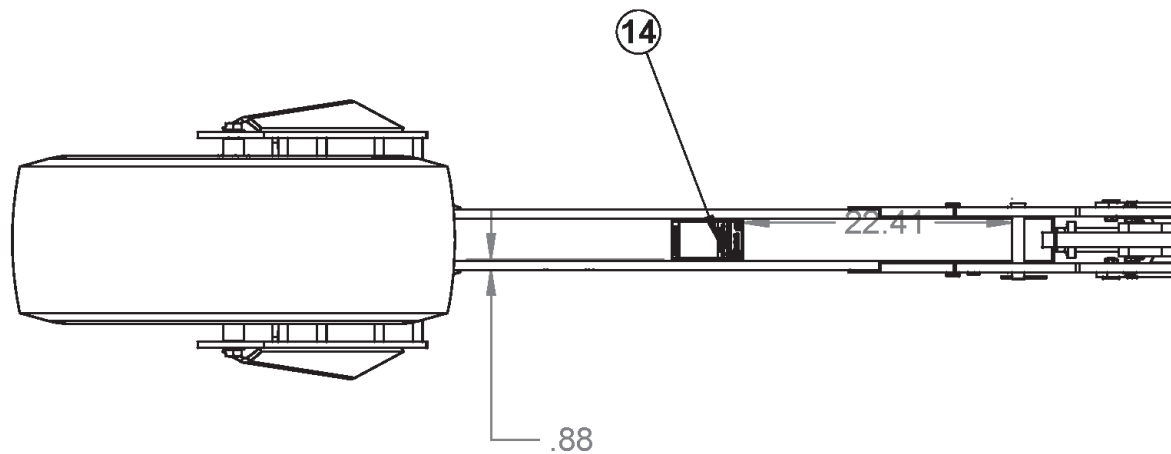
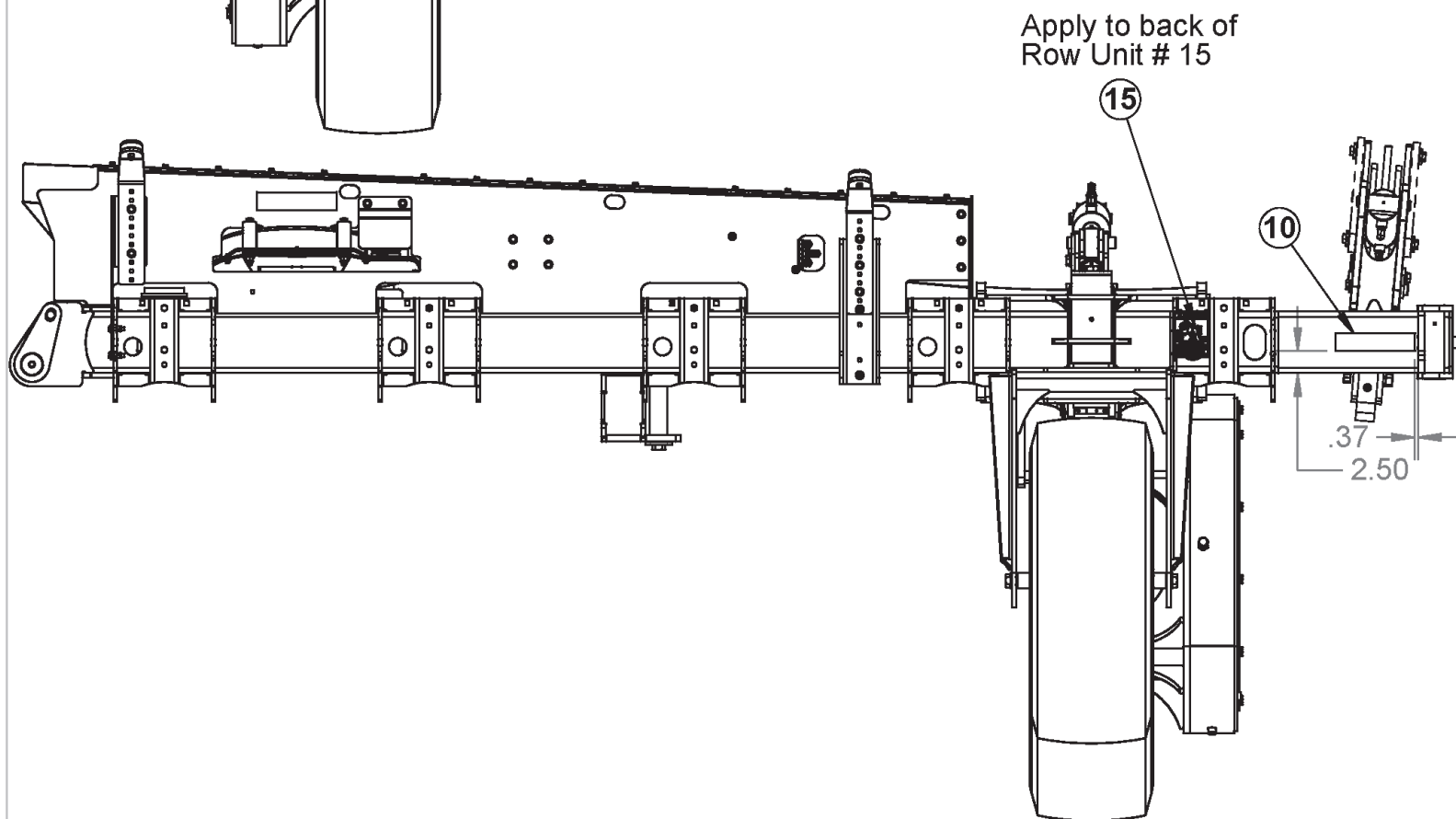
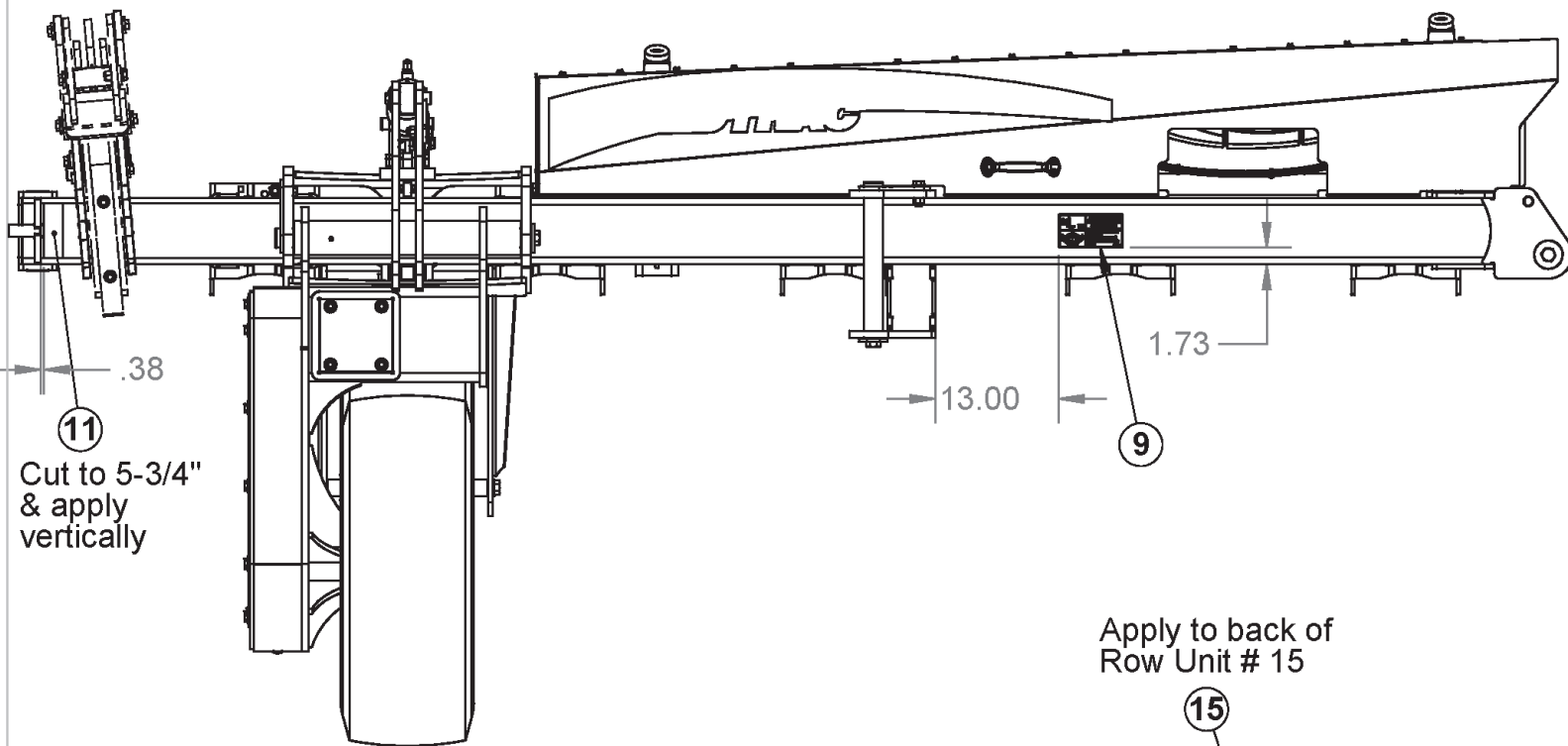
TA01759 Assy, 2000 16R30 RH Wing Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	73368118	Cap, Case IH 7x7 Tube	1	
2	HB-0.625-11X2.25Y8	Bolt, Hex Head-5/8-11x2.25-YZ8	1	
3	HB-0.625-11X2.50Y8	Bolt, Hex Head-5/8-11x2.5-YZ8	1	
4	HB-0.875-9X1.75Y8	Bolt, Hex Hd 7/8-9x1-3/4-YZ8	3	
5	HCLMP-SAE-512SS	HClamp-SAE-512-SS	1	
6	HDWSH-0.89X3.00Y	HD Washer 0.89 x 3.00	3	
7	NLNUT-0.625-11Y8	Nut, Nylock-5/8-11-YZ8	2	
8	T0050854	Anti Rotation Insert	2	
9	TA01754	Assy, RH Wing Lift	1	
10	TA01761	Assy, 16R30 RH Wing Shield	1	
11	TA01765	Assy, Wing Wheel	1	
12	TW000717	Pin Weldment	1	
13	TW000794	Pin Weldment	1	
14	TW001376	Wldmt, 16R30 RH Wing	1	
15	TW001380	Pin Weldment	1	
16	TA01833	Assy, RH Wing Hyd Valves	1	
17	TA01834	Assy, Fan RH Wing 16R30	1	
18	T0051729	Decal, Reflector, Yellow-2x9	2	
19	T0053942	Decal, Danger-Wing Crsh Hzd	1	
20	T0051588	Decal, Warning - Crush Hazard	1	
21	T0053939	Decal, Warn Crsh Wng Whl Set	1	
22	T0052802	Decal, Warn-Crush Haz Lift Cyl	1	
23	T0053715	Decal, Warn Crush Haz Crdl Lift	1	

Note:

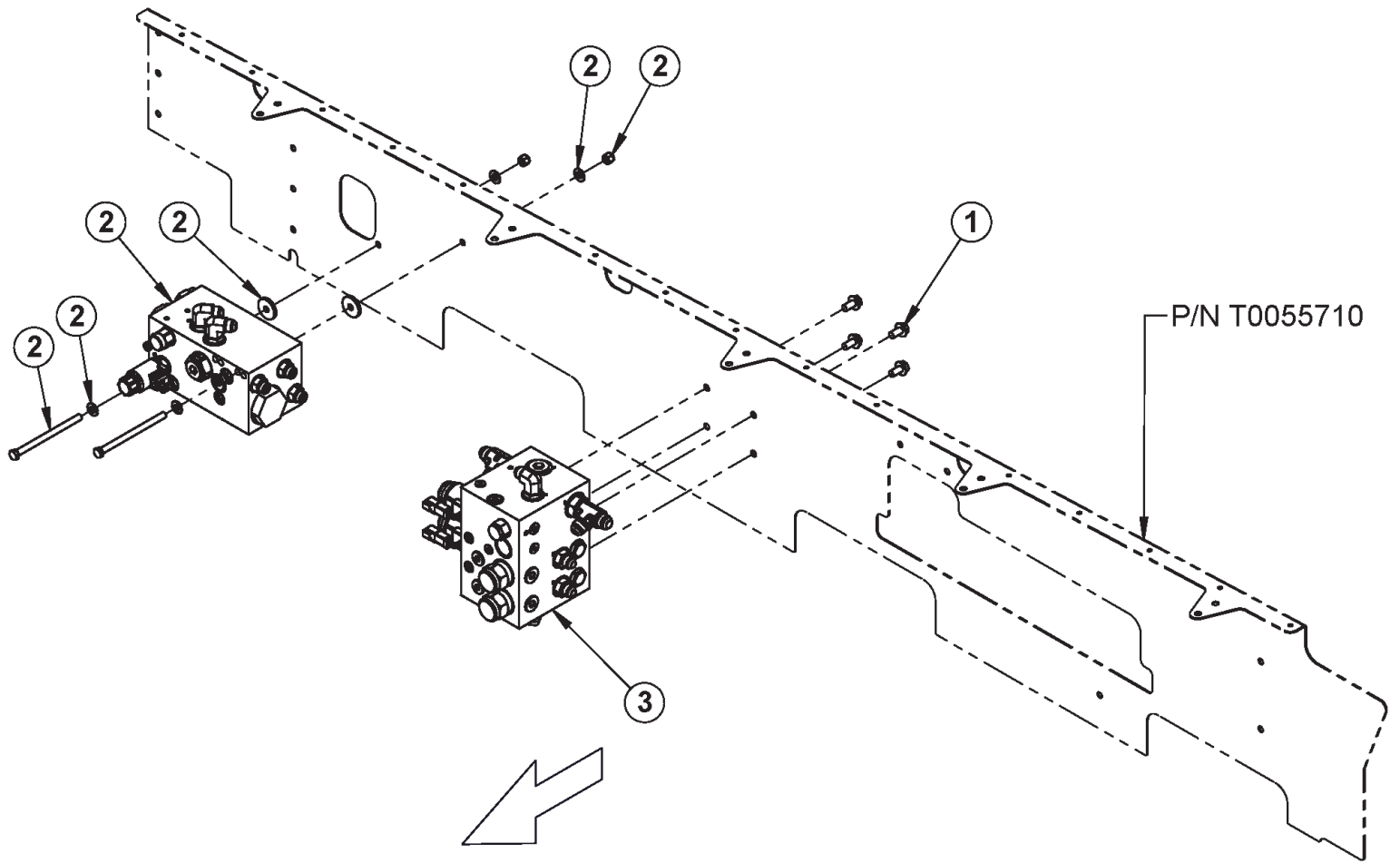
1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.





TA01759 Assy, 2000 16R30 RH Wing Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
9	T0051588	Decal, Warning - Crush Hazard	1	
10	T0051729	Decal, Reflector, Yellow-2x9	1	
11	T0051729	Decal, Reflector, Yellow-2x9	1	
14	T0053939	Decal, Warn Crsh Wng Whl Set	1	
15	T0053942	Decal, Danger-Wing Crsh Hzd	1	

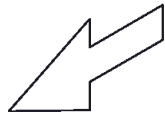
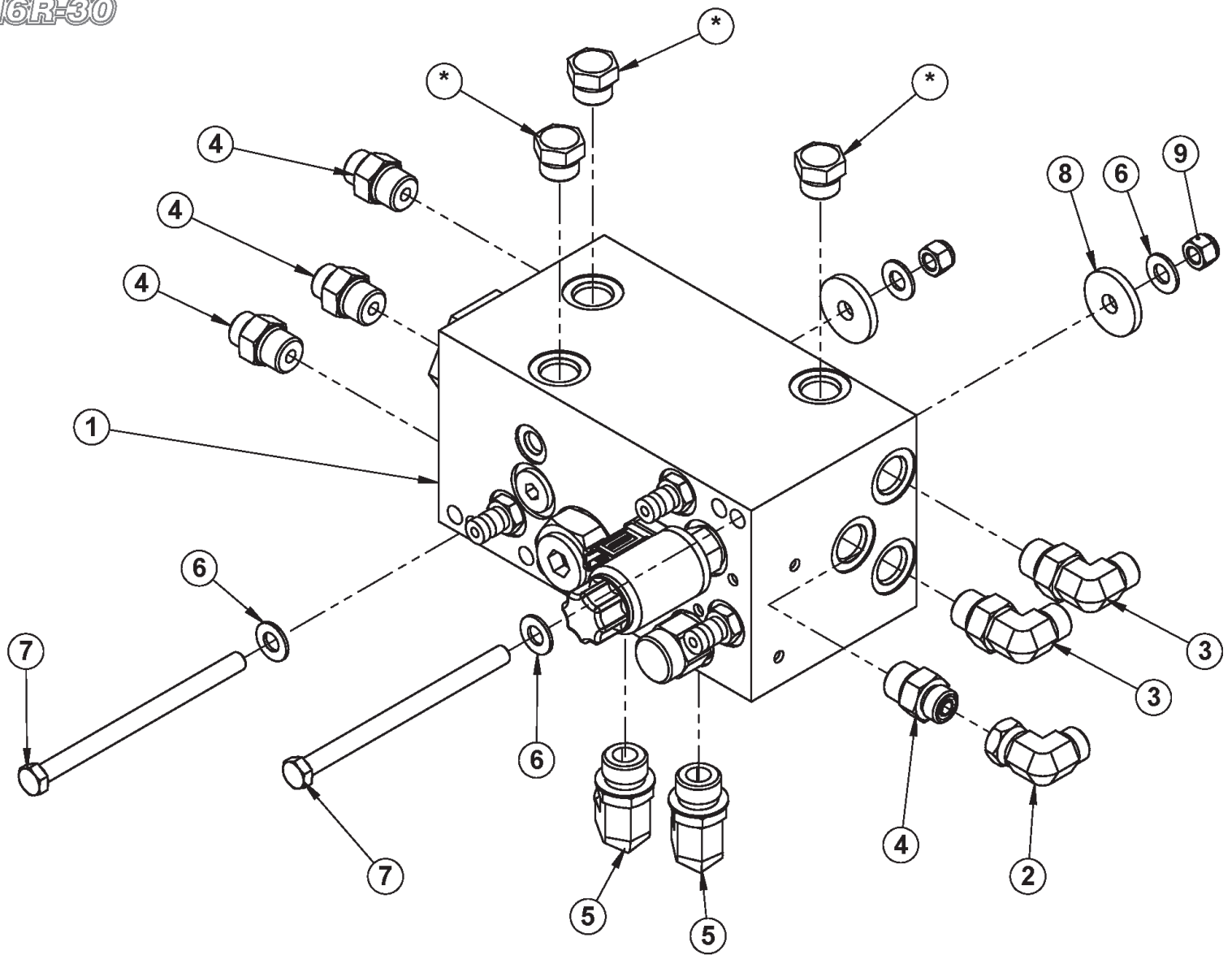


TA01833 Assy, RH Wing Hyd Valves

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	86050286	Bolt, M10x 20mm	4	
2	TA01742	Assy, Delta Force Valve	1	
3	TA01832	Assy, Valve, Fan & Alt Control	1	

Note:

- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.

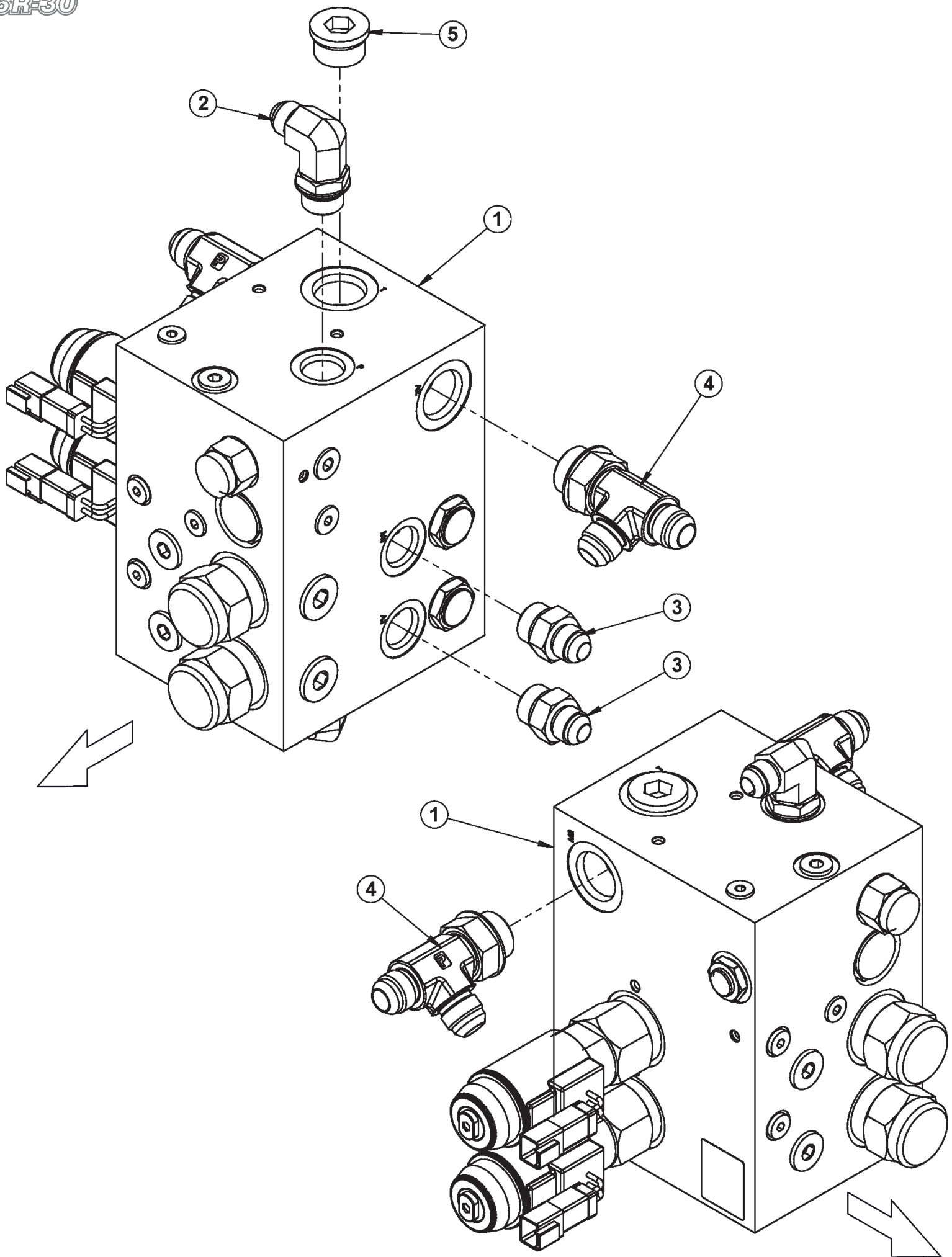


TA01742 Assy, Delta Force Valve

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	73368374	<NOT SPECIFIED>	1	
2	AD-06MFS-06FST-90	AD-06MFS-06FST-90	1	
3	AD-06MFS-08MB-90	AD-06MFS-08MB-90	2	
4	AD-06MFS-08MB	AD-06MFS-08MB	4	
5	AD-08MJ-10MB-90	ADAPTER 08MJ-10MB 90	2	
6	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	4	
7	HB-0.375-16X5.50Y8	HBolt-0.3750-16x5.500-YZ8	2	
8	HDWSH-0.375X1.375Y	HD Washer 0.375 x 1.375	2	
9	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	2	

Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.

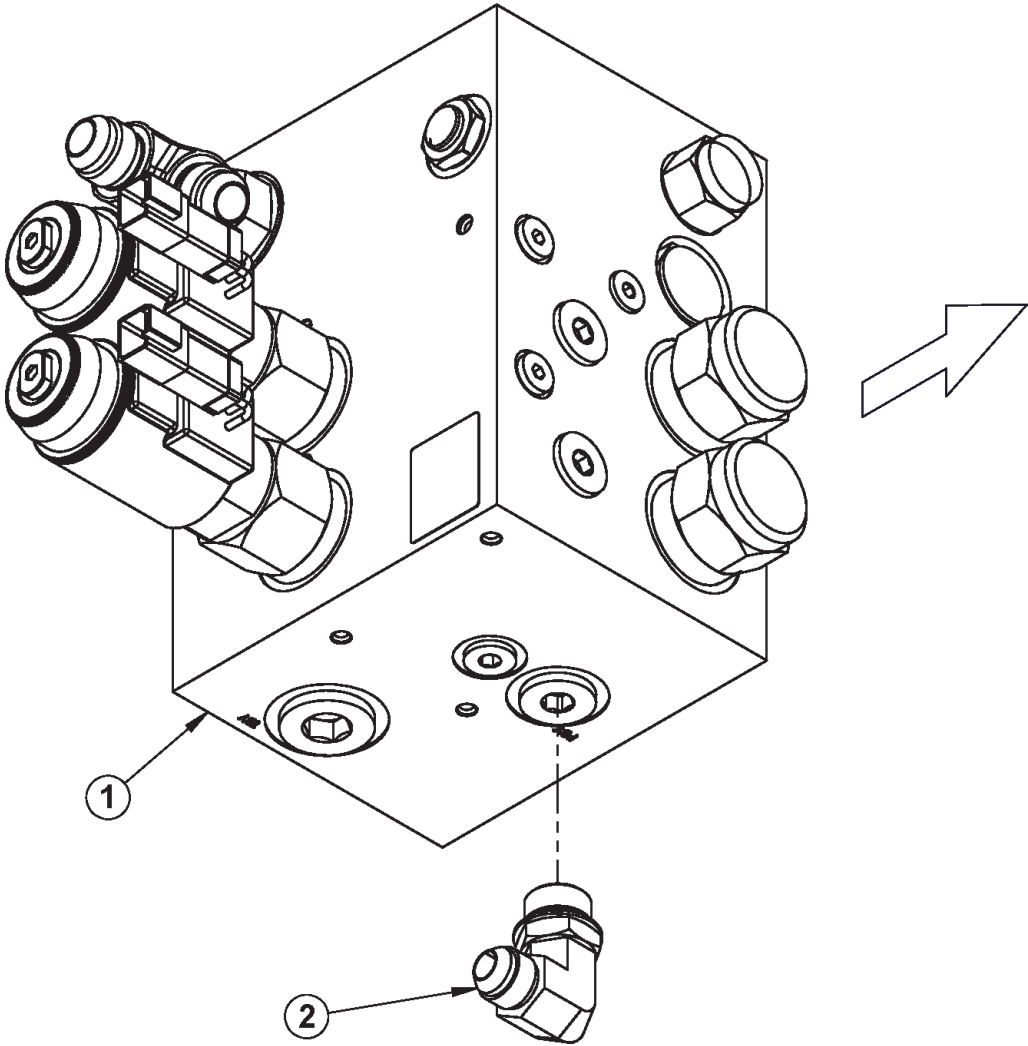


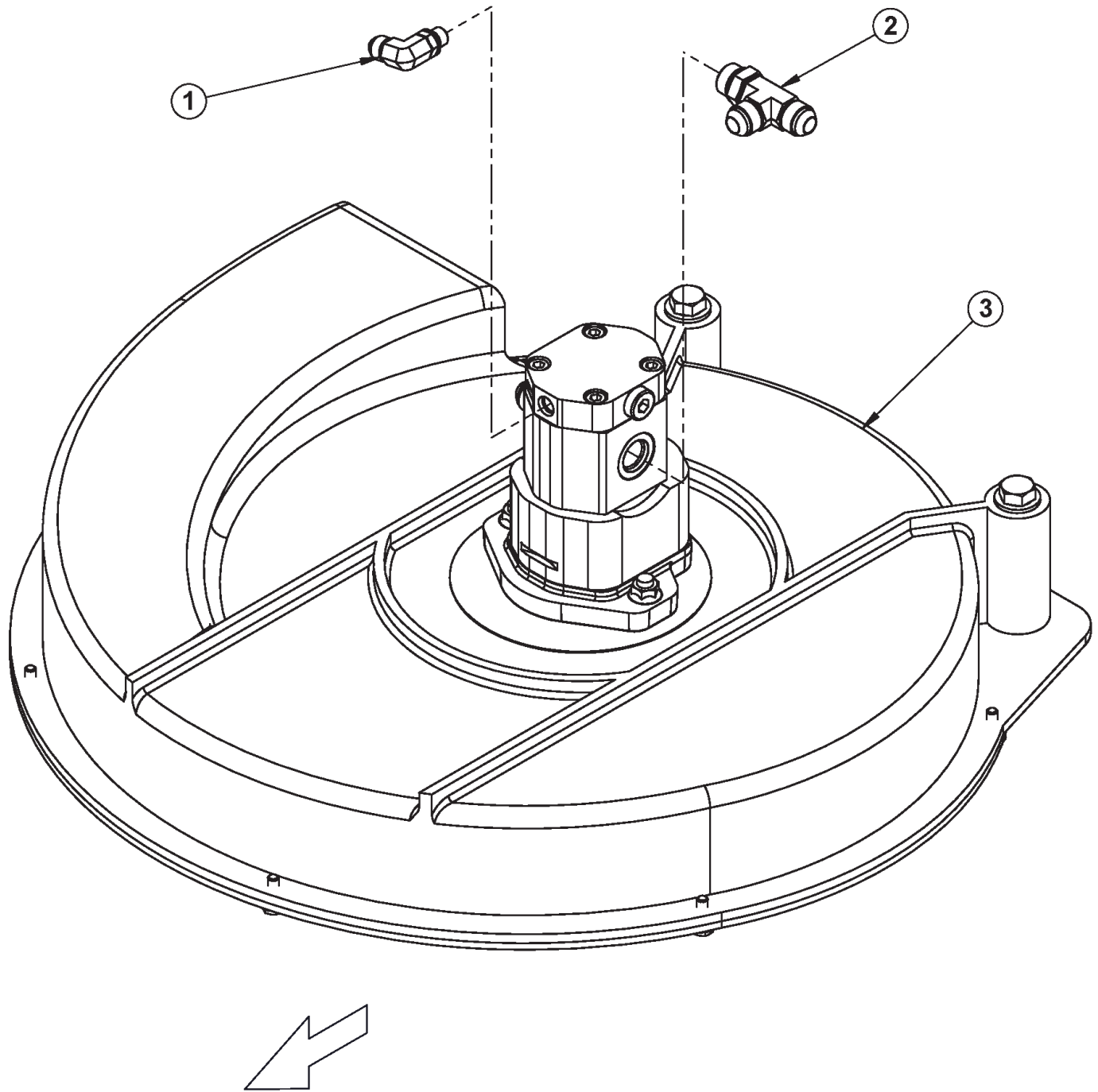
TA01832 Assy, Valve, Fan & Alt Control

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47919038	Valve, Fan & Alt Control	1	
2	AD-08MJ-10MB-90	ADAPTER 08MJ-10MB 90	2	
3	AD-08MJ-10MB	ADAPTER 08MJ-10MB	2	
4	AD-10MJ-12MB-10MJ	ADAPTER 10MJ-12MB-10MJ TEE	2	
5	HEXPLUG-12MB-HLW	SAE #12 Hollow Hex Plug	1	

Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.



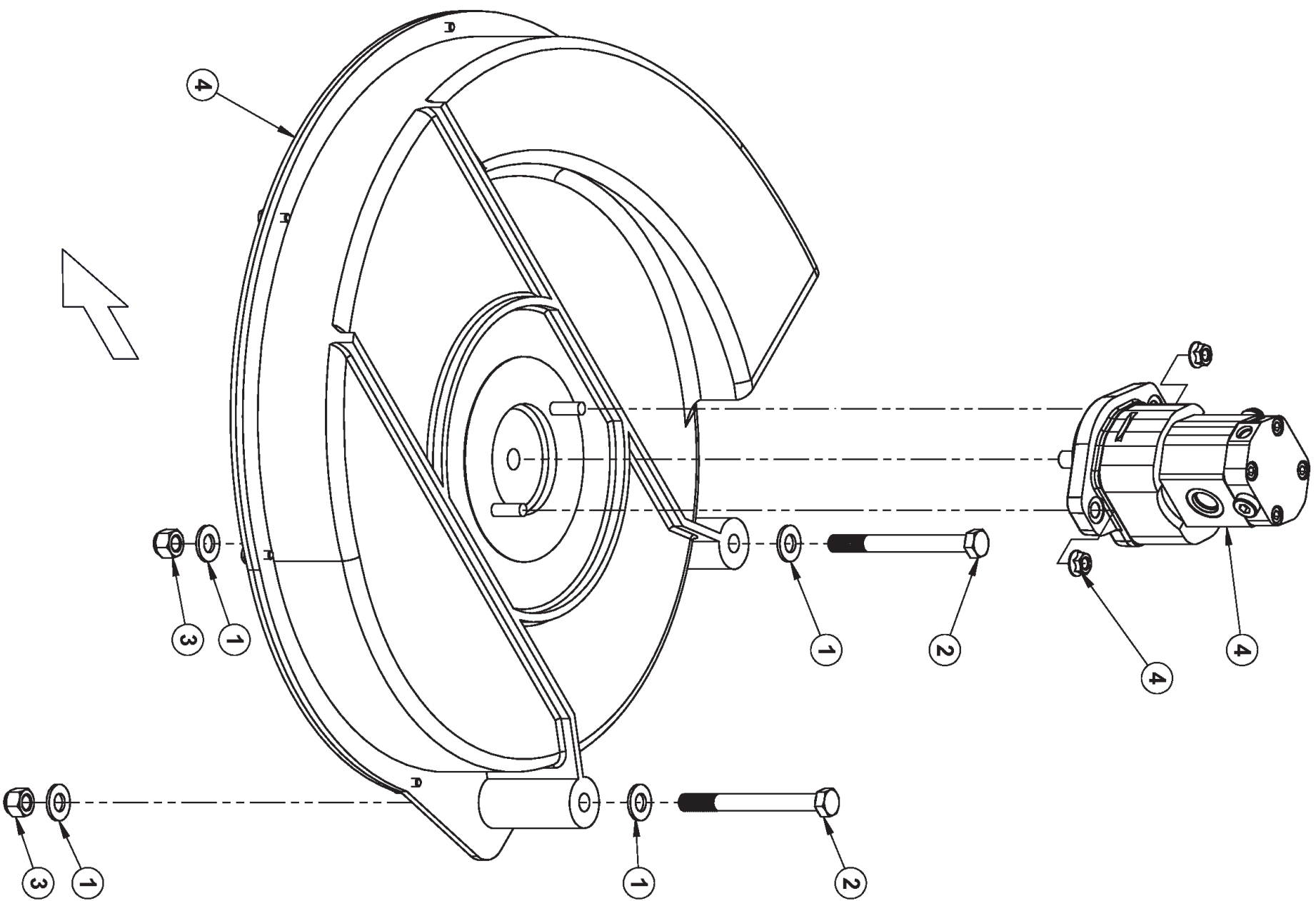


TA01834 Assy, Fan RH Wing 16R30

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MJ-04MB-90	ADAPTER 06MJ-04MB 90	1	
2	AD-08MJ-08MB-08MJ	ADAPTER 08MJ-08MB-08MJ TEE	1	
3	TA01755	Assy, Vacuum Fan	1	

Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.

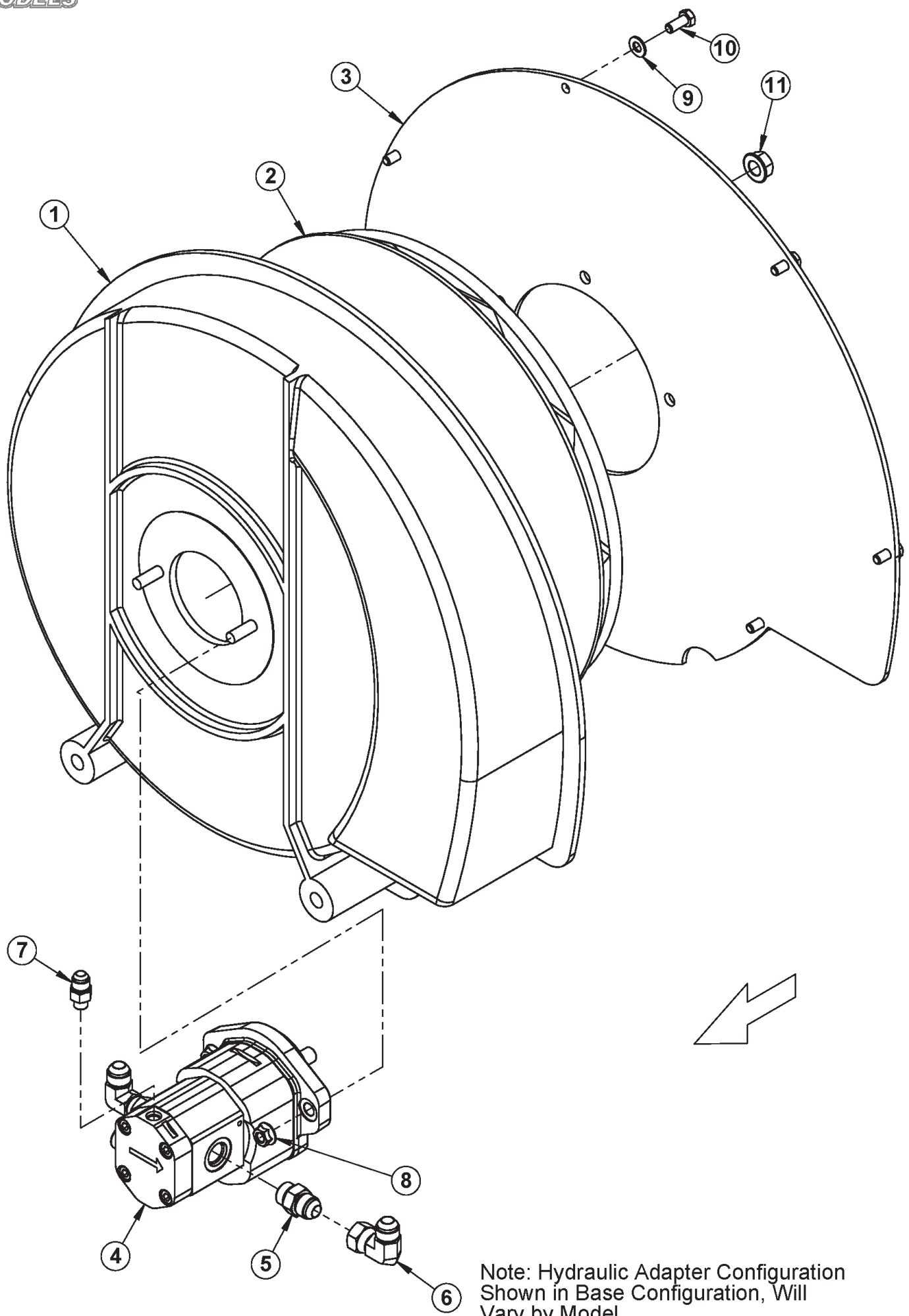


TA01755 Assy, Vacuum Fan

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
2	HB-0.500-13X5.00Y8	Bolt, Hex Hd 1/2-13x5 YZ8	2	
3	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	2	
4	TA01208	Fan, Vacuum w/Motor 6cc	1	

Note:

- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.



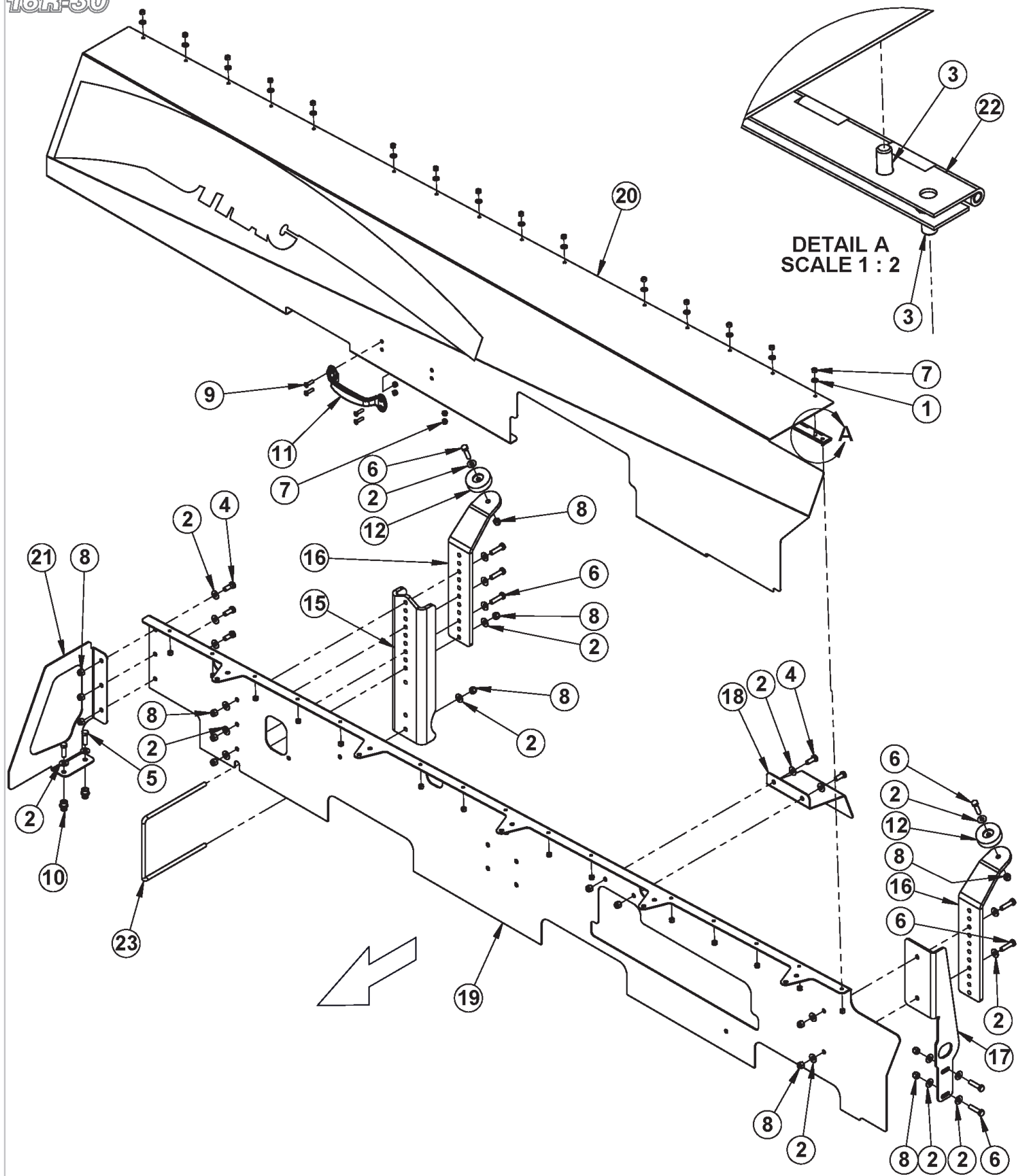
Note: Hydraulic Adapter Configuration Shown in Base Configuration, Will Vary by Model

TA01208 Fan, Vacuum w/Motor 6cc

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0051281	Housing, Fan	NSS	
2	T0051199	Impeller, Fan	NSS	
3	T0051282	Plate, Fan Back	NSS	
4	T0054396	Kit, 6cc Motor Upgrade	1	
5	AD-08MJ-08MB	Adapter, 08MJ-08MB	2	
6	AD-08MJ-08FJX-90	Adapter, 08MJ-08FJX 90	2	
7	AD-06MJ-04MB	Adapter, 06MJ-04MB	1	
8	FLSHN-0.375-16C5	Nut, Ser Hex Flange 3/8-16 CZ5	2	30
9	FW-SAE-0.313C5	Washer, Flat SAE 5/16 CZ5	7	
10	HB-0.313-18X0.75C5	Bolt, Hex Hd 5/16-18x3/4 CZ5	7	20
11	FLSHN-0.500-20C5	Nut, Ser Hex Flange 1/2-20 CZ5	1	65

Note:

1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

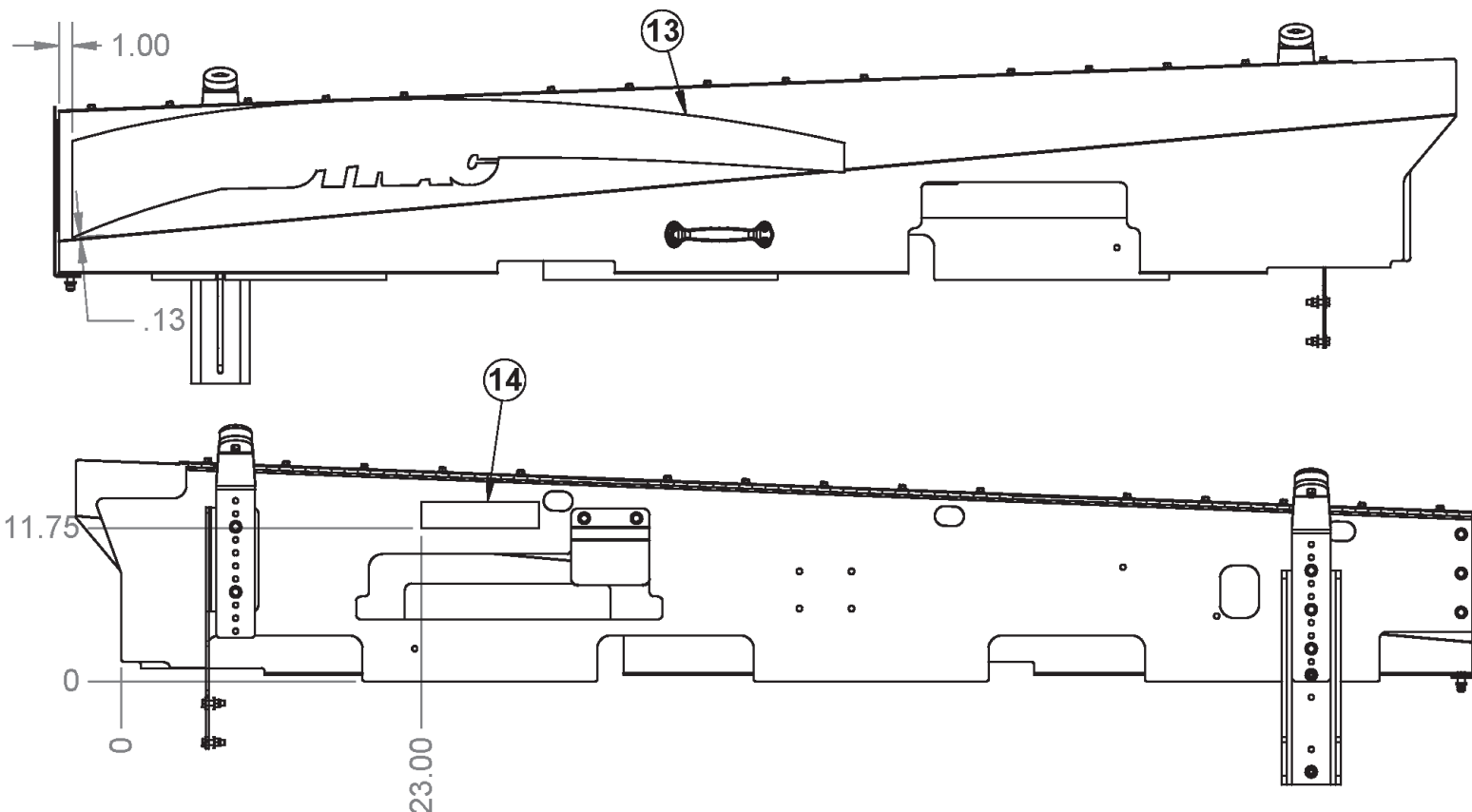


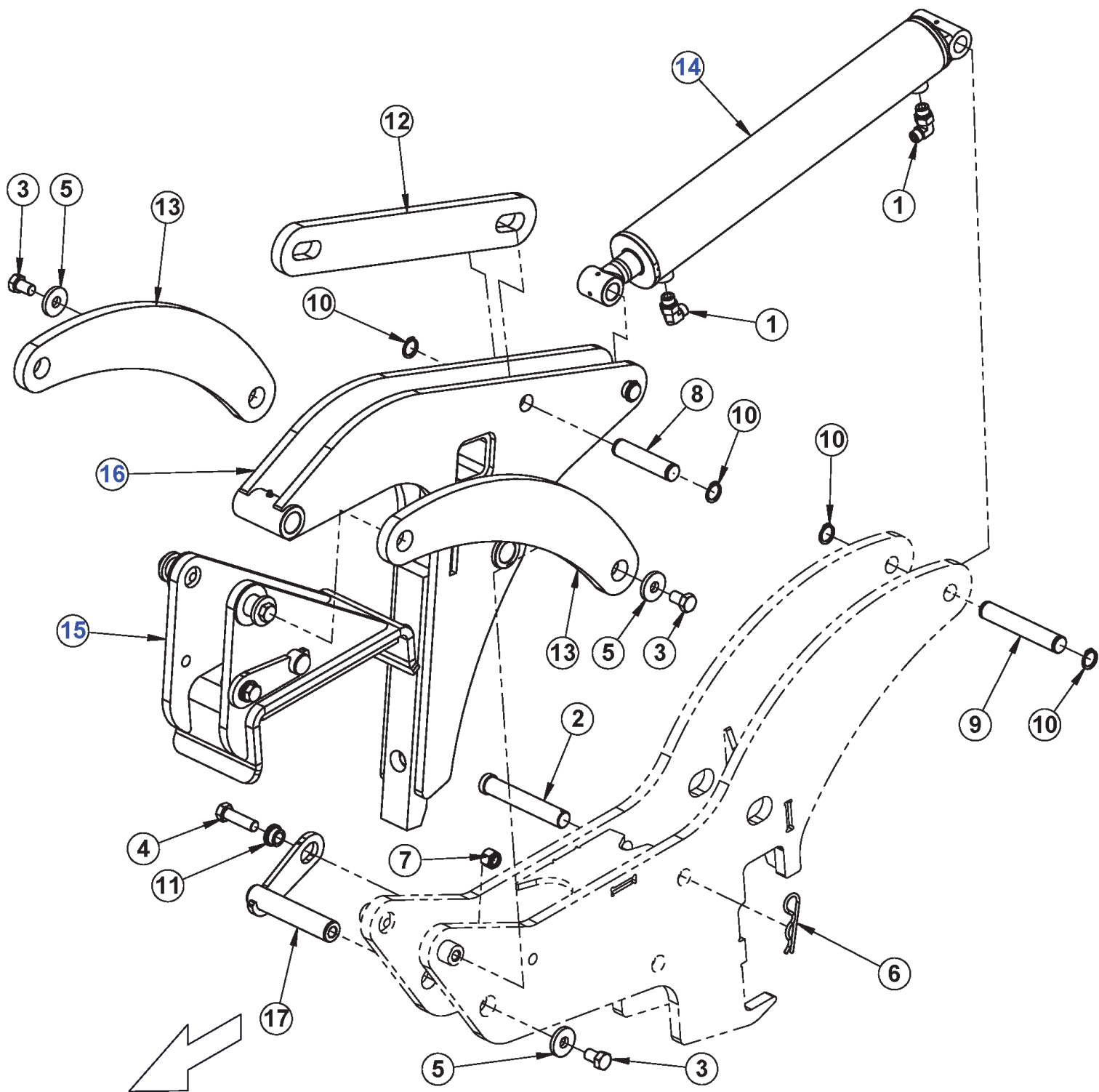
TA01761 Assy, 16R30 RH Wing Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.250Y	Washer, SAE Flat 1/4-YZ	15	
2	FW-USS-0.313Y	Washer, Flat USS 5/16-YZ	25	
3	HB-0.250-20X0.50Y8	Bolt, Hex Hd 1/4-20x1/2-YZ8	30	
4	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	5	
5	HB-0.375-16X1.25Y8	Bolt, Hex Hd 3/8-16x1-1/4 YZ8	2	
6	HB-0.375-16X1.50Y8	Bolt, Hex Hd 3/8-16x1-1/2-YZ8	9	
7	NLNUT-0.250-20Y8	Nut, Nylock 1/4-20-YZ8	34	
8	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	16	
9	OHPMS-.250-20X1.00SS	Screw, Ovl Hd Mach 1/4-20x1 SS	4	
10	RN-0.375-16-.31-.44-Y	Rivnut, 3/8-16 UNC .31-.44 GR	2	
11	T0051467	Handle	1	
12	T0051481	Rubber Stop	2	
13	T0051663	Decal, YieldTrac With Arch RH	1	
14	T0051729	Decal, Reflector, Yellow-2x9	1	
15	T0054582	Shield Mount	1	
16	T0054583	Mount, Shield Bumper	2	
17	T0055670	Mount, Shield	1	
18	T0055681	Fan Deflector	1	
19	T0055710	Panel, 16R30 RH Wing Back	1	
20	T0055712	Shield, 16R30 RH Wing	1	
21	T0055716	Cap, RH Shield End	1	
22	TA00851	Piano Hinge	3	
23	UB-0.38X7.0X7.0-SY2	3/8 X 7 X 7 U Bolt	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



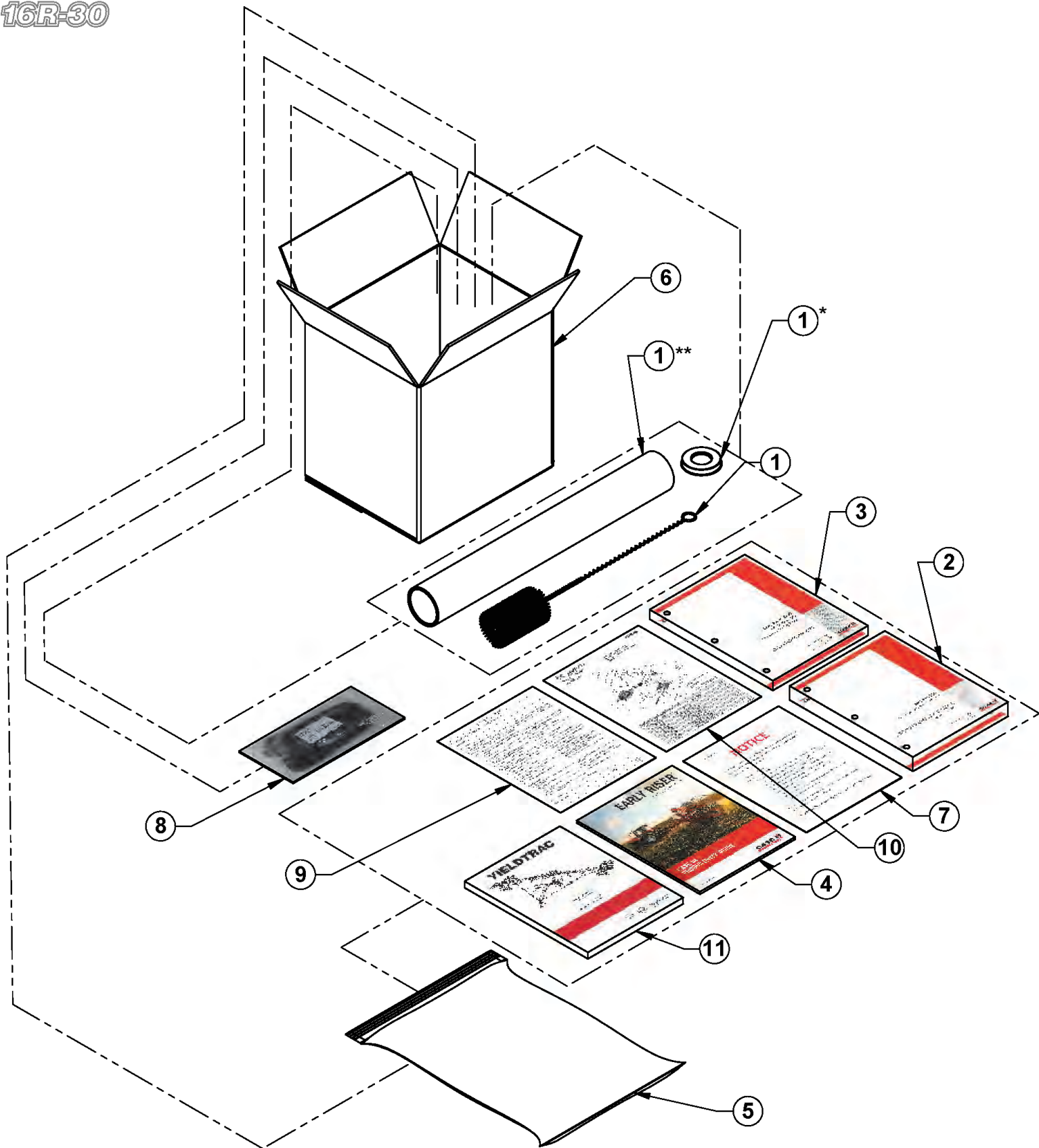


TA01754 Assy, RH Wing Lift

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	AD-06MFS-08MB-90	Adapter, 06MFS-08MB 90	2	
2	CLPIN-1.000X6.00Y	Clevis Pin, 1x6 YZ	1	
3	HB-0.625-11X1.00Y8	Bolt, Hex Hd 5/8-11x1 YZ8	3	
4	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
5	HDWSH-0.64X1.75Y	HD Washer 41/64x1-3/4 YZ	3	
6	HPINCLIP-1.000Y	Hair Pin Clip, 1 YZ	1	
7	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	1	
8	PIN-1.000X4.13Y	Pin, 1x4-1/8 YZ	1	
9	PIN-1.000X5.75Y	Pin, 1x5-3/4 YZ	1	
10	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	4	
11	T0050854	Anti Rotation Insert	1	
12	T0055482	Linkage, Transport Lock	1	
13	T0055674	Linkage, Wing Lift	2	
14	TA00963	Cylinder, Hyd 3.00X20.00	1	
15	TA00979	Assy, Wing Engagement	1	
16	TA00980	Wing Lift Assy	1	
17	TW000906	Pin Weldment	1	

Note:

1. **[T=XXX]** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



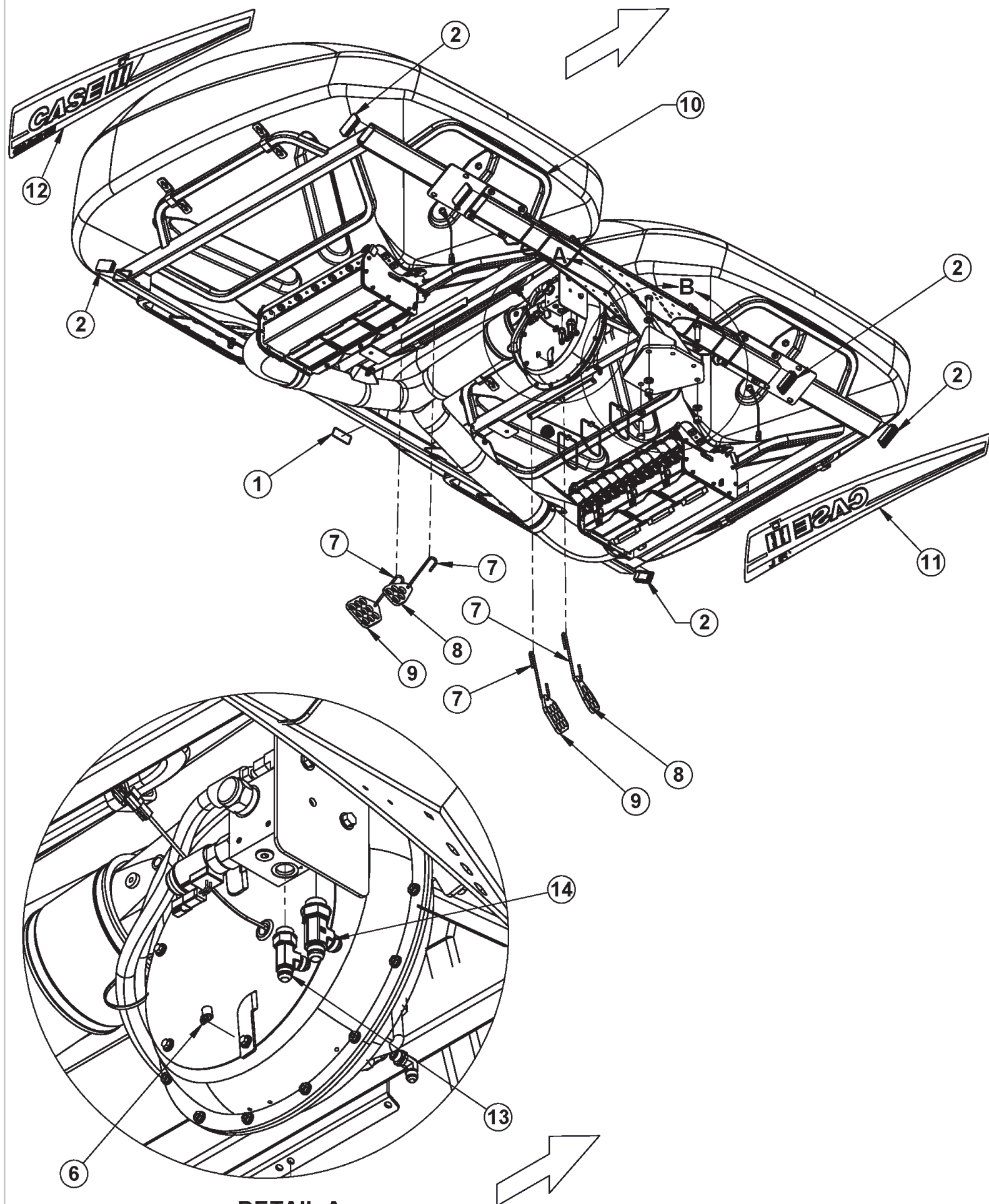
TA01777 Operator's Package 16R30 FF 2000

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	346290A1	Brush, Seed Tube	1	
2	47778177	Planter Software Manual v30.4 (2000)	1	
3	48127006	Operator's Manual, 2150 12/16 R 30	1	
4	PL-3104-17	Early Riser Productivity Tips 2000	1	
5	T0051793	Bag, Recloseable-13"x18" 6Mil	1	
6	T0051794	Box, Cardboard 12X10X12	1	
7	T0052697	Notice, Track Alignment	1	
8	T0054395	Harness, Product Calibration	1	
9	T0055155	Chcklst, PDI&Startup 2017	1	
10	T0055724	Chklst, Oper Pkg 16R30 FF 2000	1	
11	T0055725	Manual, Operator's 2018 FF	1	

* Denotes that the cap comes with the seed tube brush.

** Denotes that tube comes with the seed tube brush.

*** The tractor compressor harness is not included if the planter is Precision Ready.



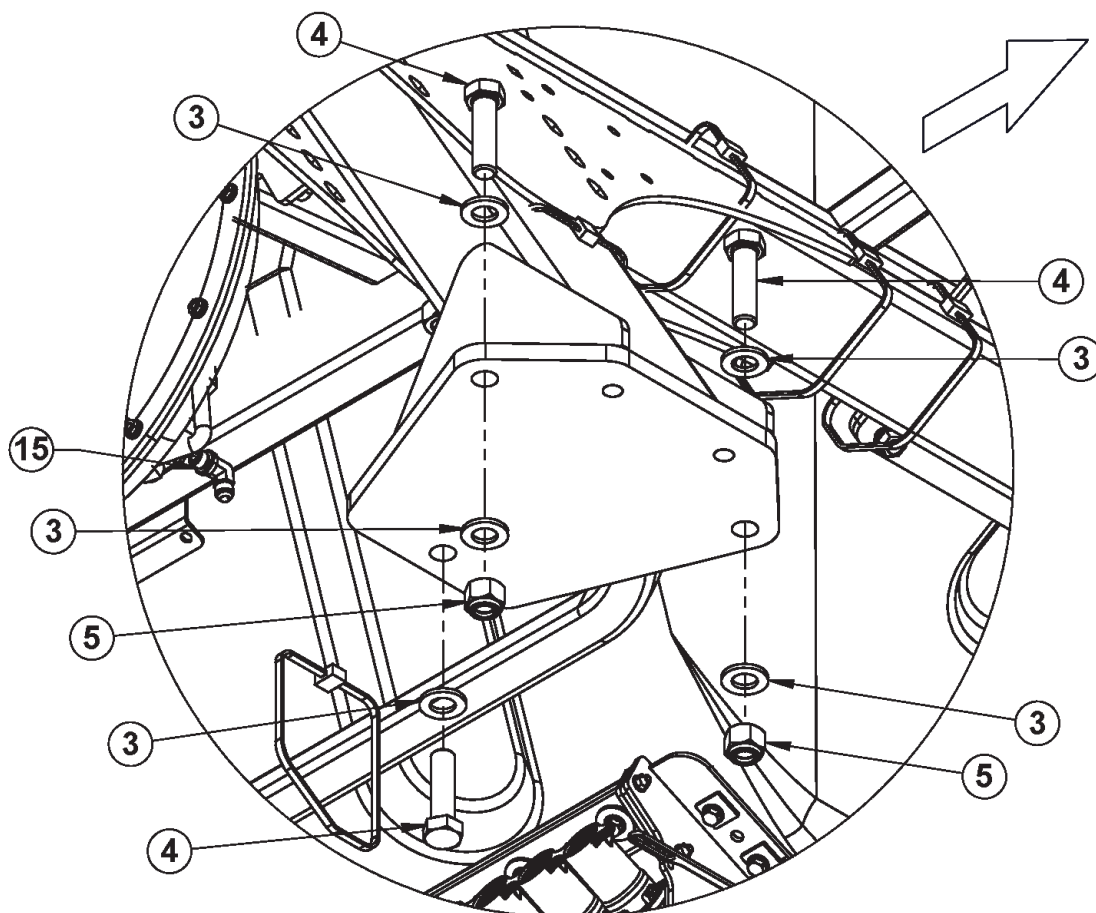
DETAIL A
SCALE 1 : 6

TA01806 Bulk Fill Assy (2000)

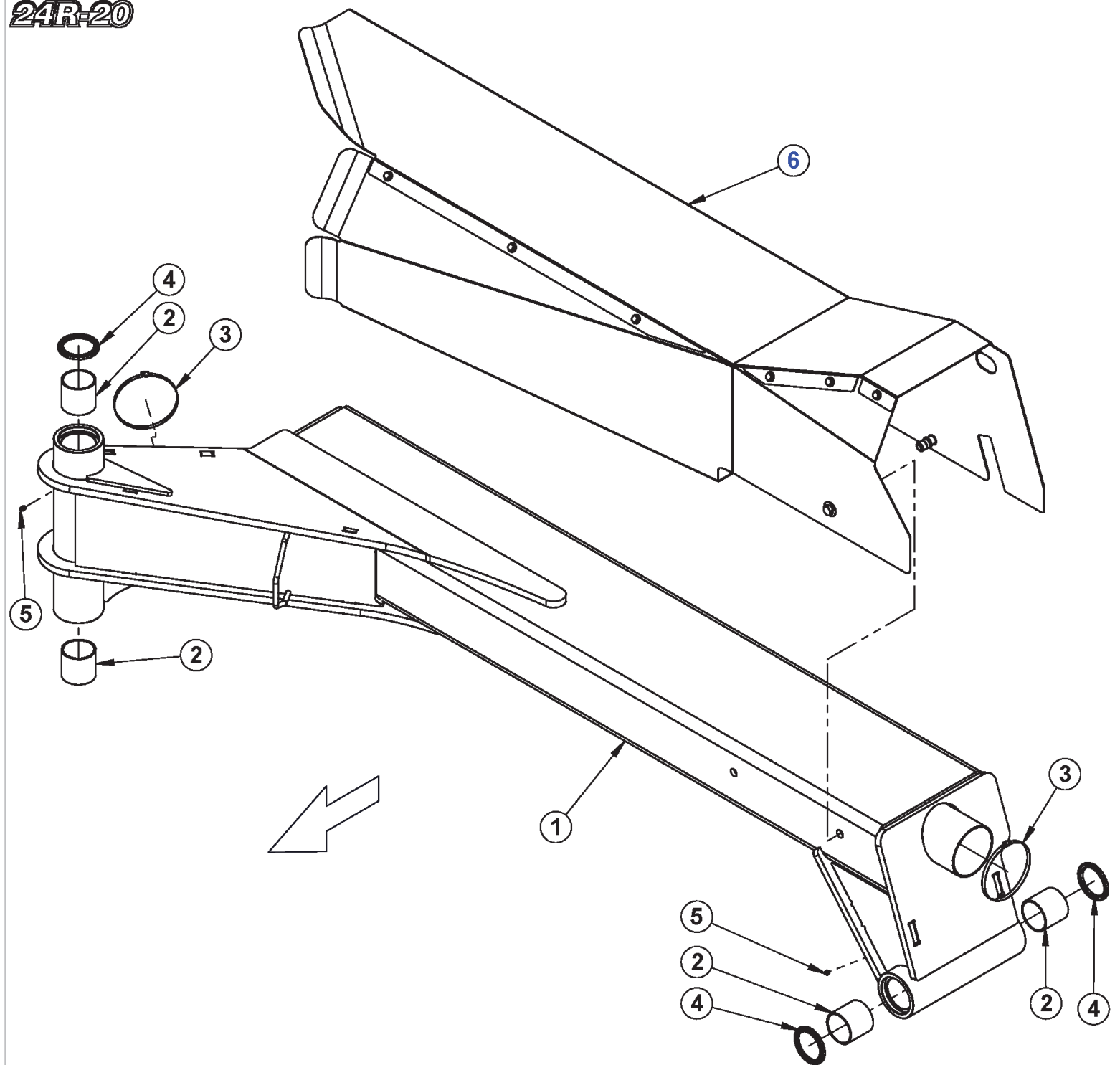
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0051653	Decal, No Step	1	
2	T0052517	Plug, Rect Tube 2x4x6-8Ga	6	
3	FW-SAE-0.750Y	Washer, Flat-SAE 3/4 YZ	6	
4	HB-0.750-10X2.75Y8	Bolt, Hex Hd 3/4-10x2-3/4-YZ8	3	
5	NLNUT-0.750-10Y8	Nut, Nylock 3/4-10-YZ8	3	
6	T0051717	Clamp, Cushion Tube .3125 Ø.281 Hole	1	
7	T0052569	J-Hanger, Double	4	
8	T0052573	Seed Hose Hanger, Middle Fr	2	
9	T0052572	Seed Hose Hanger, Middle	2	
10	48103239	CNH Bulk Fill	1	
11	T0052294	Decal, Bulk Fill LH	1	
12	T0052295	Decal, Bulk Fill RH	1	
13	AD-08MJ-10MB-08MJ	AD-08MJ-10MB-08MJ	1	
14	AD-10MJ-12MB-10MJ	ADAPTER 10MJ-12MB-10MJ TEE	1	
15	AD-06MJ-06MB-90	ADAPTER 06MJ-06MB 90	1	

Note:

*Items marked with an asterisk are items that are included in that particular part or assembly.



DETAIL B
SCALE 1 : 6

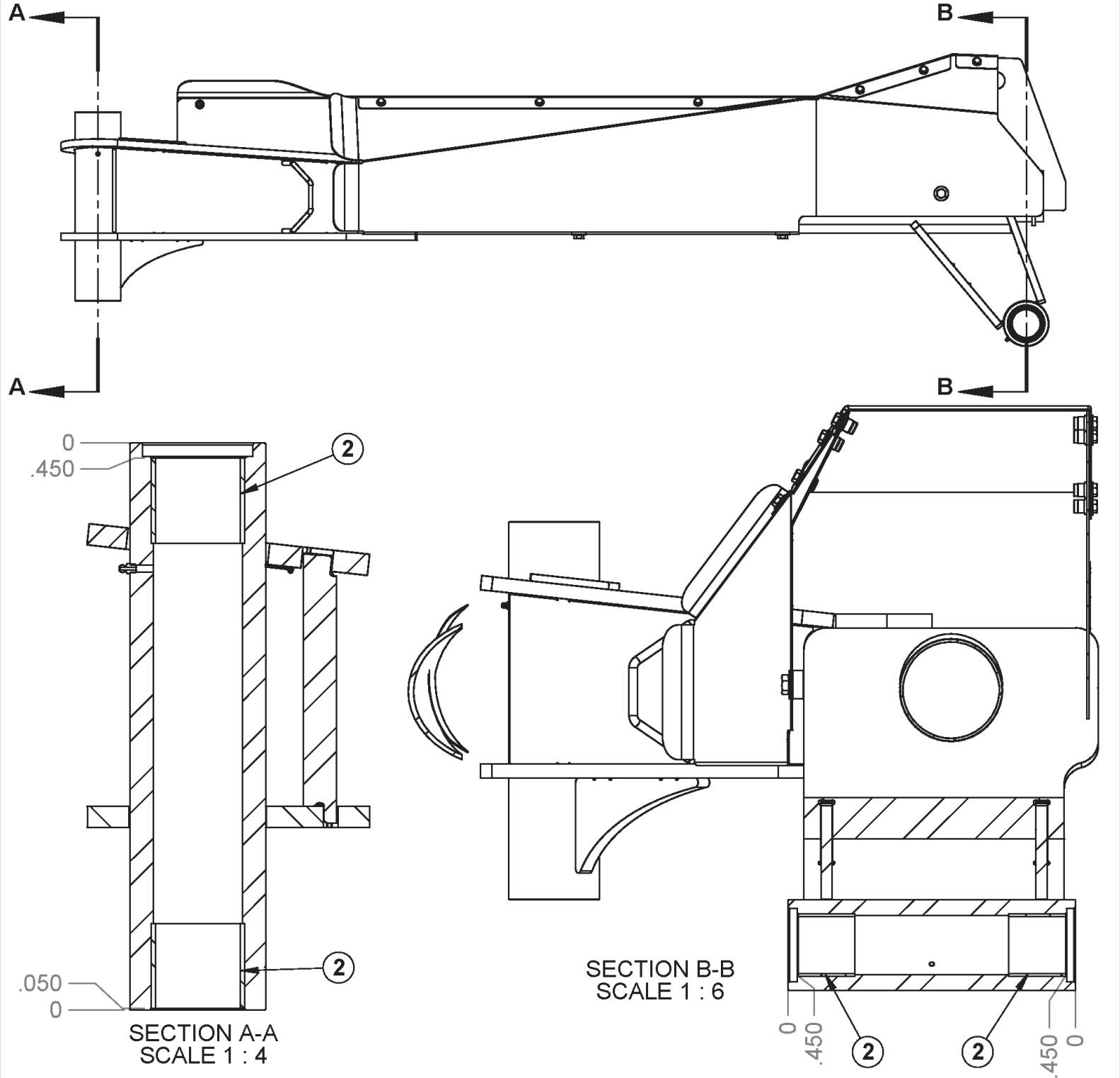


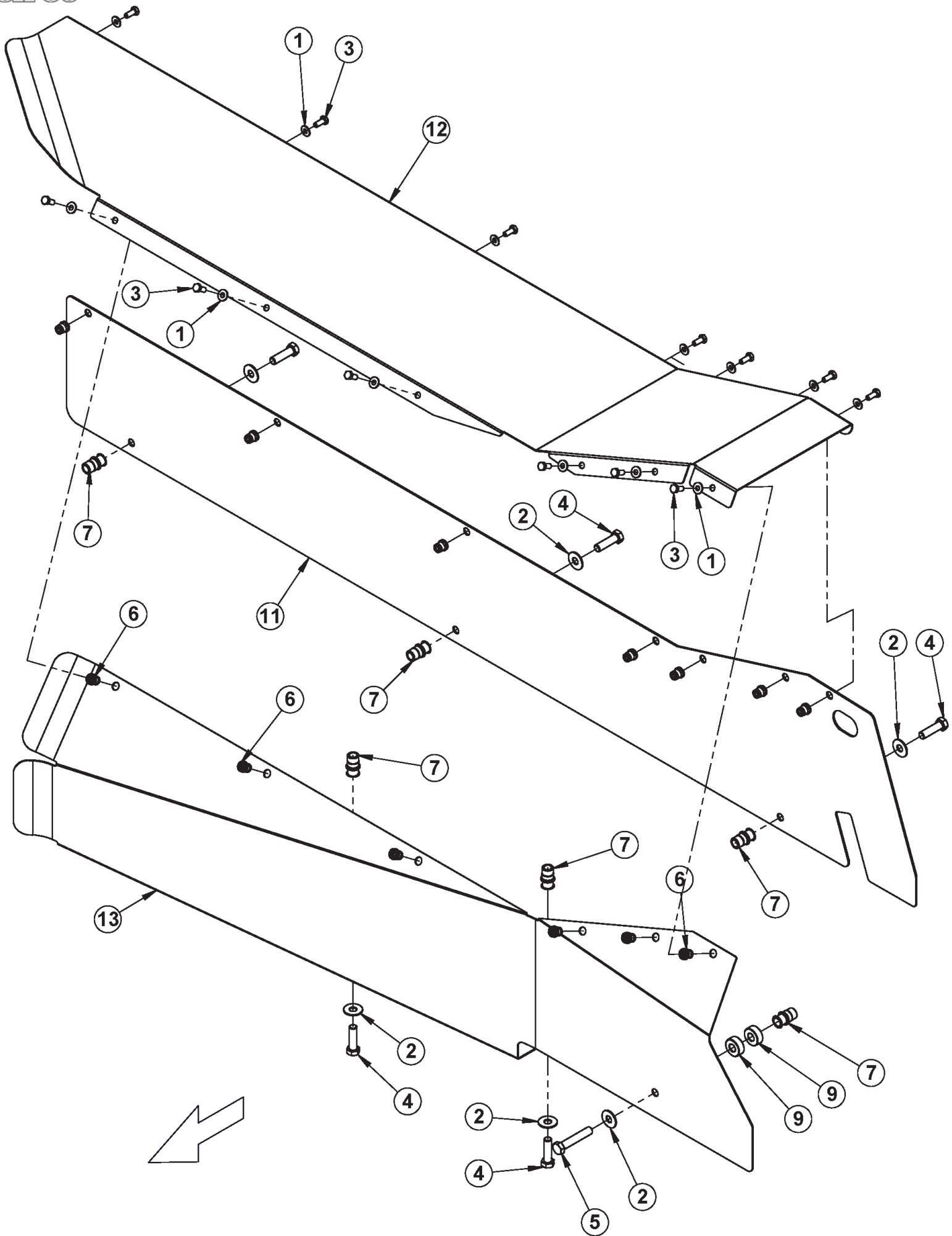
TA01808 Assy, 16R30 LH Stub Arm

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW001377	Wldmt, 16R30 LH Stub Arm	1	
2	PB-2.500X2.75X2.50	Bush, Polygon 2.500x2.75x2.50	4	
3	HCLMP-SAE-512SS	HClamp-SAE-512-SS	2	
4	T0051584	2.50 Grease Seal	3	
5	ZERK-0.250-28	Zerk, 1/4-28	2	
6	TA01810	Assy, 16R30 LH SA Shield	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



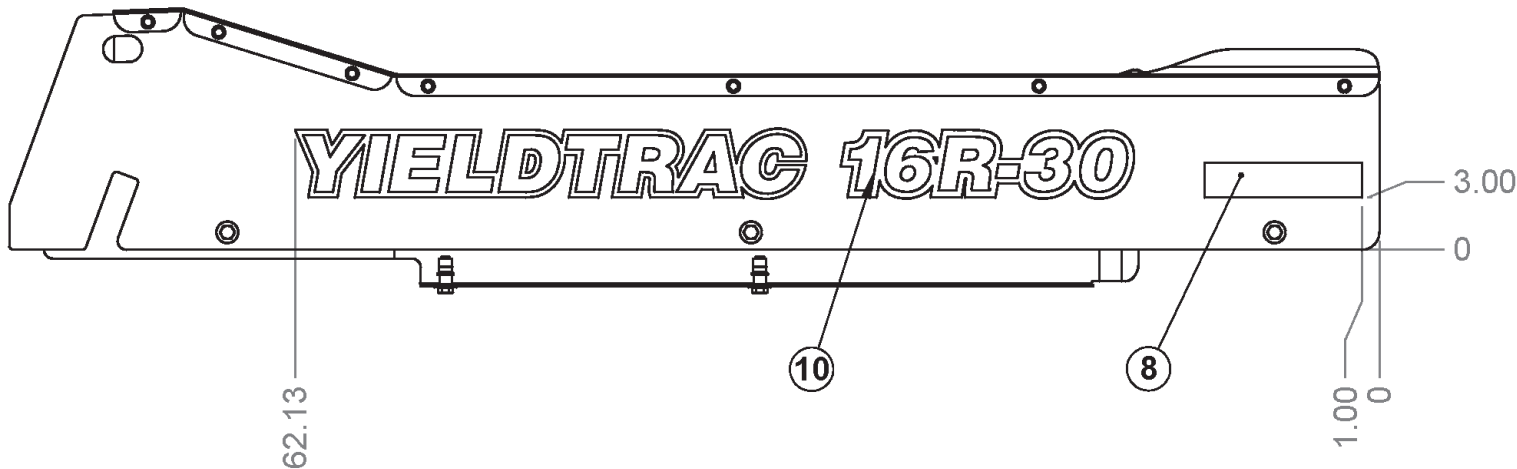


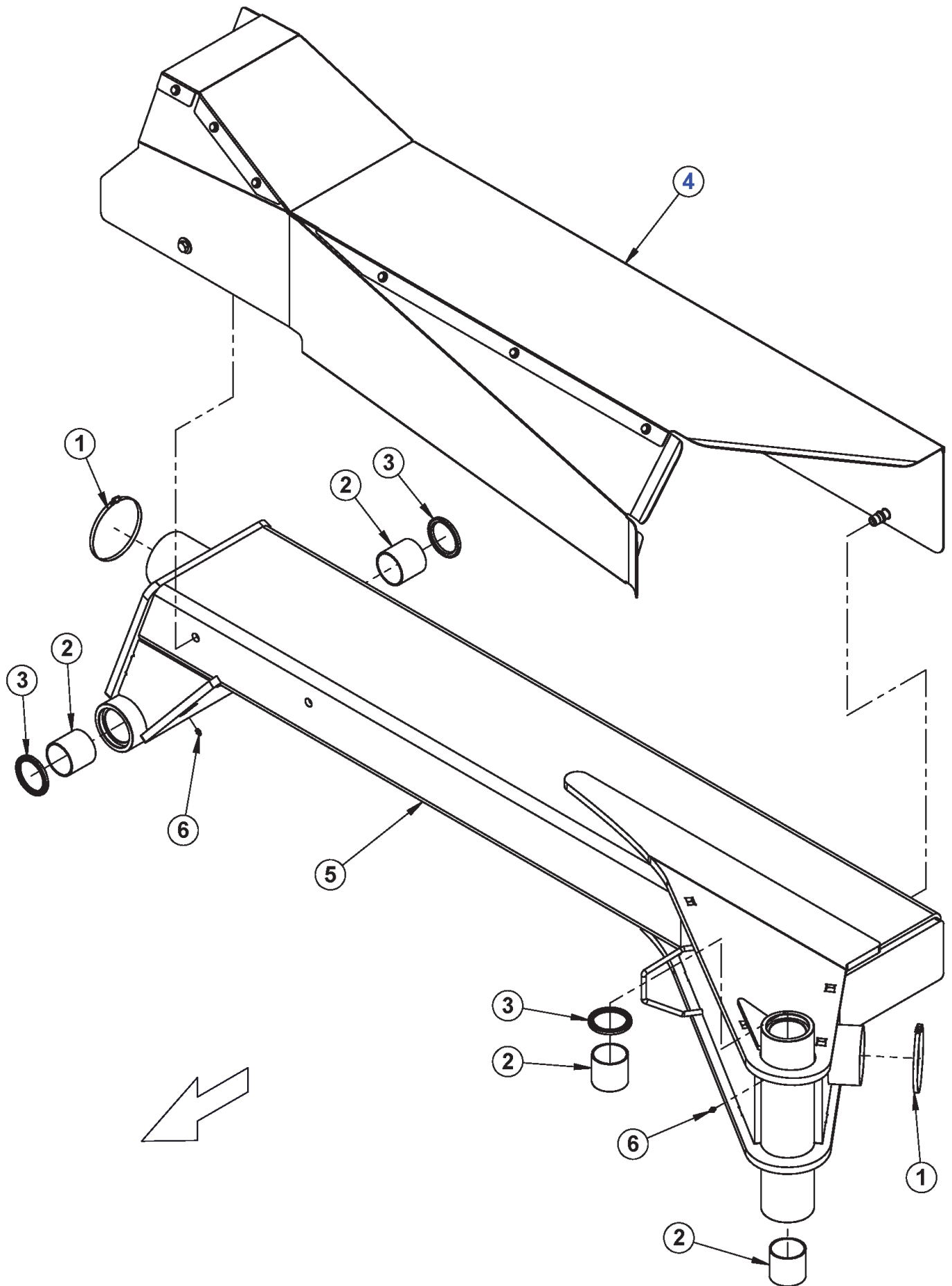
TA01810 Assy, 16R30 LH SA Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-USS-0.250Y	Washer, Flat USS 1/4" YZ	13	
2	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	6	
3	HB-0.313-18X0.75Y8	Bolt, Hex Hd 5/16-18x3/4-YZ8	13	
4	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	5	
5	HB-0.500-13X2.75Y8	Bolt, Hex Hd 1/2-13x2-3/4 YZ8	1	
6	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	13	
7	RN-0.500-13-.35-.50Y	Rivnut, 1/2-13 .350-.500 GR	6	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	T0052276	Spacer	2	
10	T0055759	Decal, Yldtrac 16R30-3.8x48.08	1	
11	T0055777	Panel, 16R30 Stub Arm Back	1	
12	T0055778	Cover, LH Stub Arm Shield	1	
13	T0055779	Shield, LH Stub Arm Front	1	

Note:

- 1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.



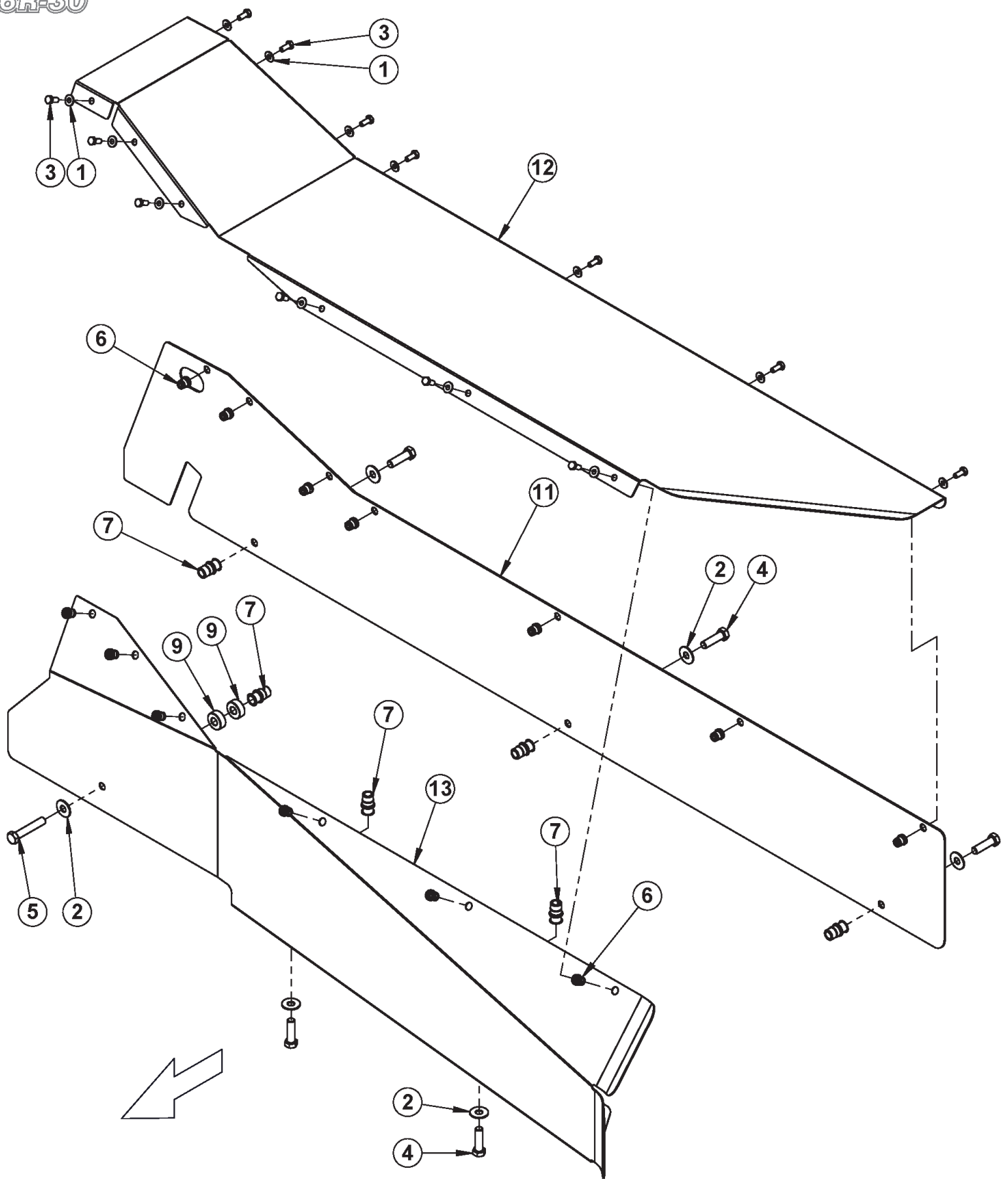


TA01809 Assy, 16R30 RH Stub Arm

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	HCLMP-SAE-512SS	HClamp-SAE-512-SS	2	
2	PB-2.500X2.75X2.50	Bush, Polygon 2.500x2.75x2.50	4	
3	T0051584	2.50 Grease Seal	3	
4	TA01811	Assy, 16R30 RH SA Shield	1	
5	TW001378	Wldmt, 16R30 RH Stub Arm	1	
6	ZERK-0.250-28	Zerk, 1/4-28	2	

Note:

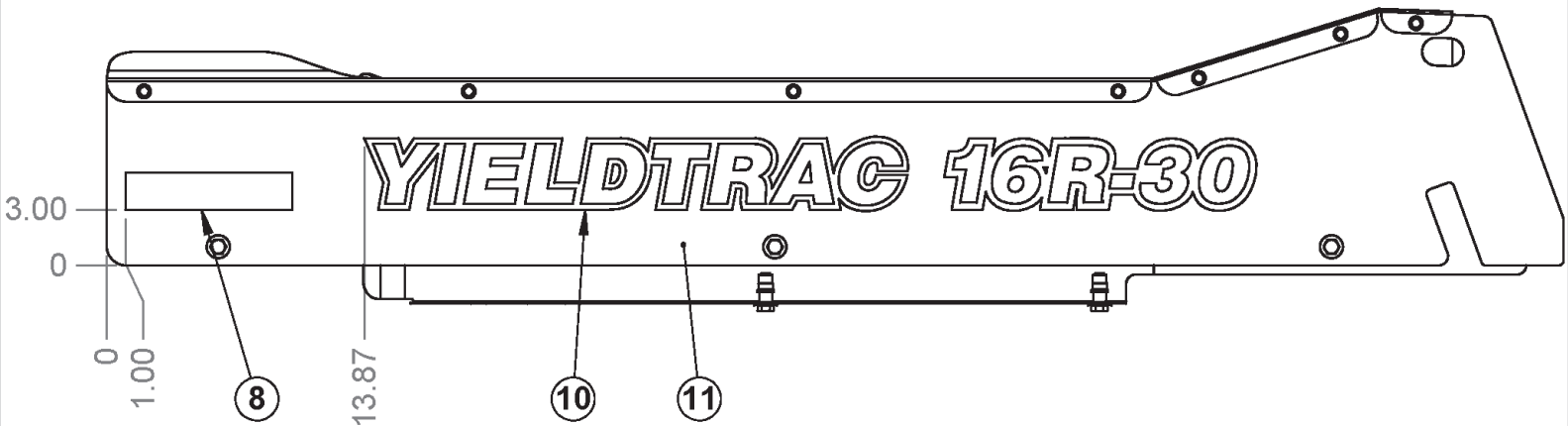
- 1. T=XXX = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
- 2. * Items marked with an asterisk are items that are included in that particular part or assembly.

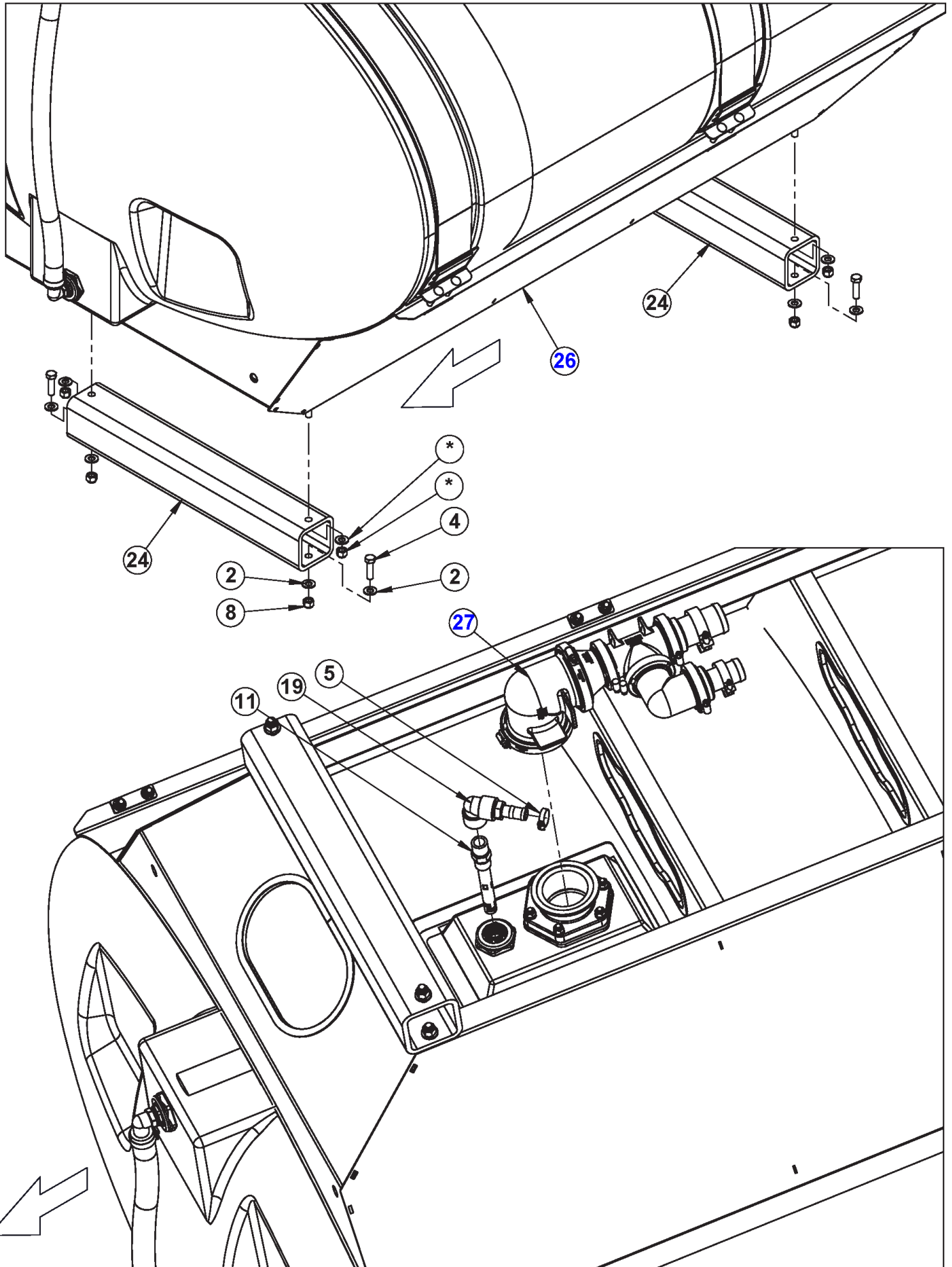


TA01811 Assy, 16R30 RH SA Shield

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-USS-0.250Y	Washer, Flat USS 1/4" YZ	13	
2	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	6	
3	HB-0.313-18X0.75Y8	Bolt, Hex Hd 5/16-18x3/4-YZ8	13	
4	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	5	
5	HB-0.500-13X2.75Y8	Bolt, Hex Hd 1/2-13x2-3/4 YZ8	1	
6	RN-0.313-18-.03-.15Y	Rivnut, 5/16-18 UNC .027-.150	13	
7	RN-0.500-13-.35-.50Y	Rivnut, 1/2-13 .350-.500 GR	6	
8	T0051729	Decal, Reflector, Yellow-2x9	1	
9	T0052276	Spacer	2	
10	T0055759	Decal, Yldtrac 16R30-3.8x48.08	1	
11	T0055777	Panel, 16R30 Stub Arm Back	1	
12	T0055780	Cover, RH Stub Arm Shield	1	
13	T0055781	Shield, RH Stub Arm Front	1	

- Note:**
- 1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
 - 2. * Items marked with an asterisk are items that are included in that particular part or assembly.



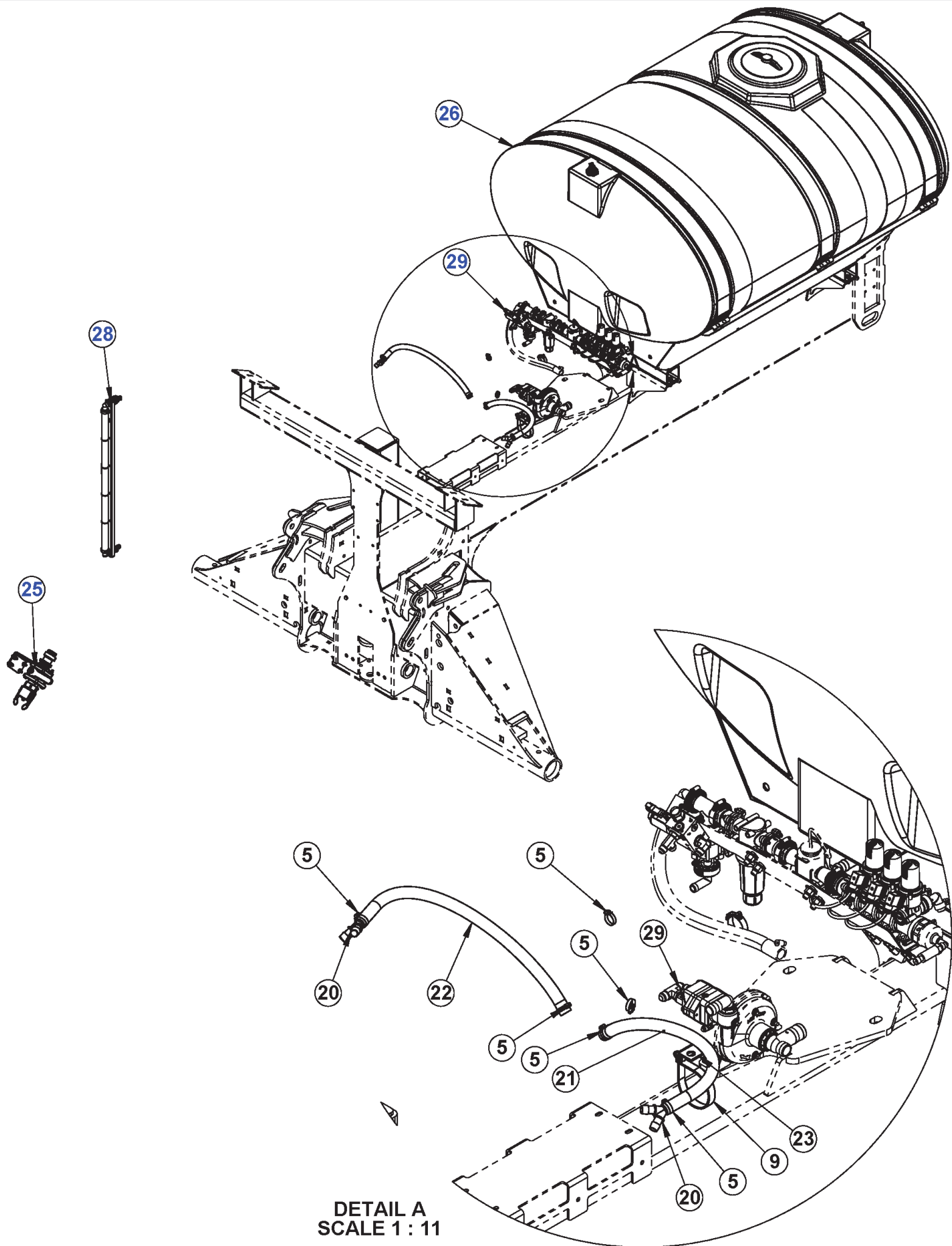


TA01814 Option, 16R30 750 Gal Fert Sys

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
2	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	8	
3	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	1	
4	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	4	
5	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	8	
6	HCLMP-SAE-16SS	Clamp, Hose-SAE-#16-SS	1	
7	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	1	
8	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	4	
9	PCLMP-4.000x2.56	Clmp, Cus Pipe Ø4x2-9/16	1	
10	T0051512	3/4" MPT x 3/4" HB	1	
11	T0051637	Agitator, Tank	1	
12	T0051640	T-Bolt Clamp 2"	1	
13	T0051674	Hose, 0.38" Spray (per ft)	75	
14	T0051675	Hose, 0.75" Spray (per ft)	60	
15	T0051676	Hose, 1.50" Suction (per ft)	5	
16	T0051677	Hose, 2.00" Suction (per ft)	15	
17	T0051994	Hose, 0.25" Air Line (per ft)	150	
18	T0052304	Hose, 1.00" Spray (per ft)	1	
19	T0052428	Elbow, 3/4FPT X 3/4FPT	1	
20	T0052445	3/4" Hose Barb Wye	2	
21	T0052780	Hose, AgSpray 200 Ø3/4x30	1	
22	T0052781	Hose, AgSpray 200 Ø3/4x30	1	
23	T0053651	Brkt, Suction Tube	1	
24	T0055772	Tank Riser	2	
25	TA00693	Assy, Liquid Fert Mount	1	
26	TA01002	Assy, 750 Gal Tank and Base	1	
27	TA01847	Assy, Sump Fill 750 Elliptical	1	
28	TA01541	Assy, Rear Liq Fert Sight Gauge	1	
29	TA01670	Assy, Fert Pump/ Section Valves	1	

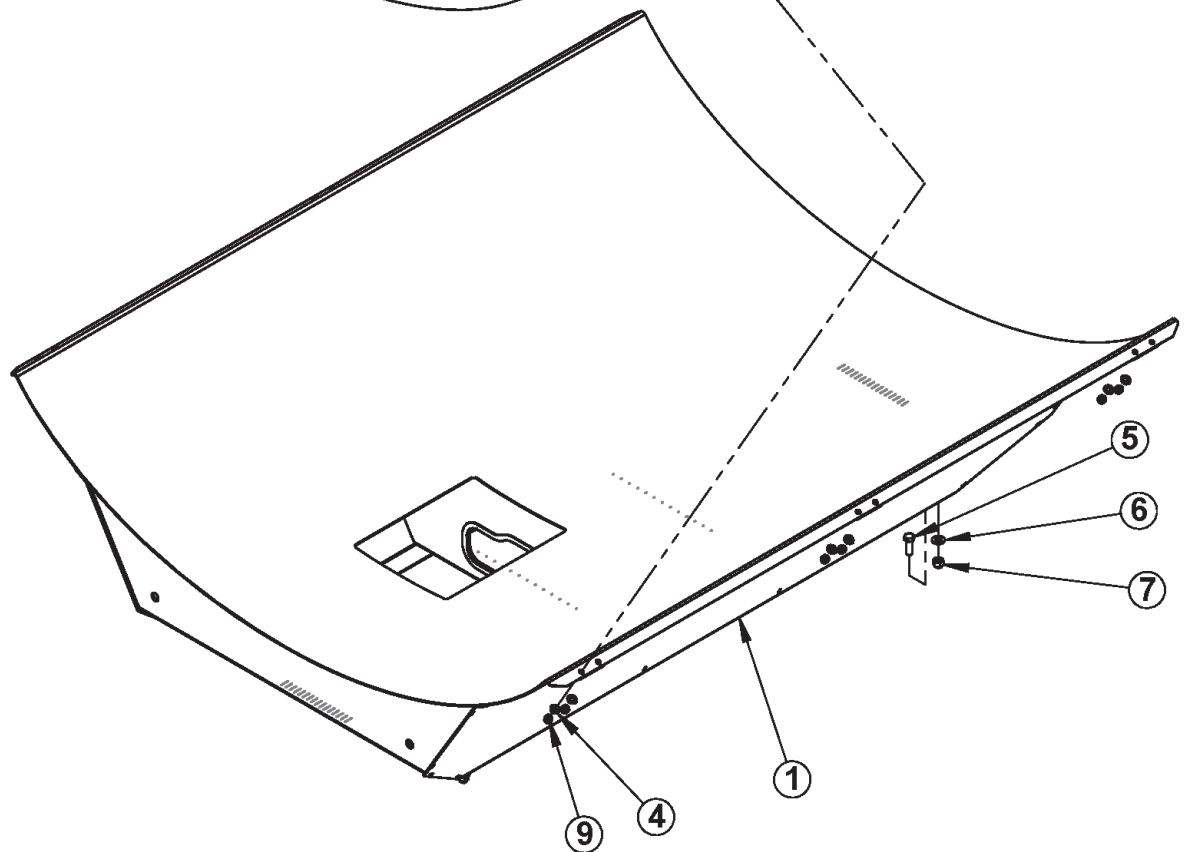
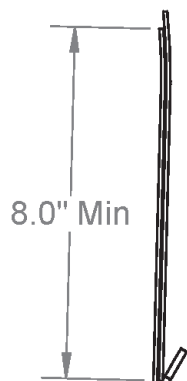
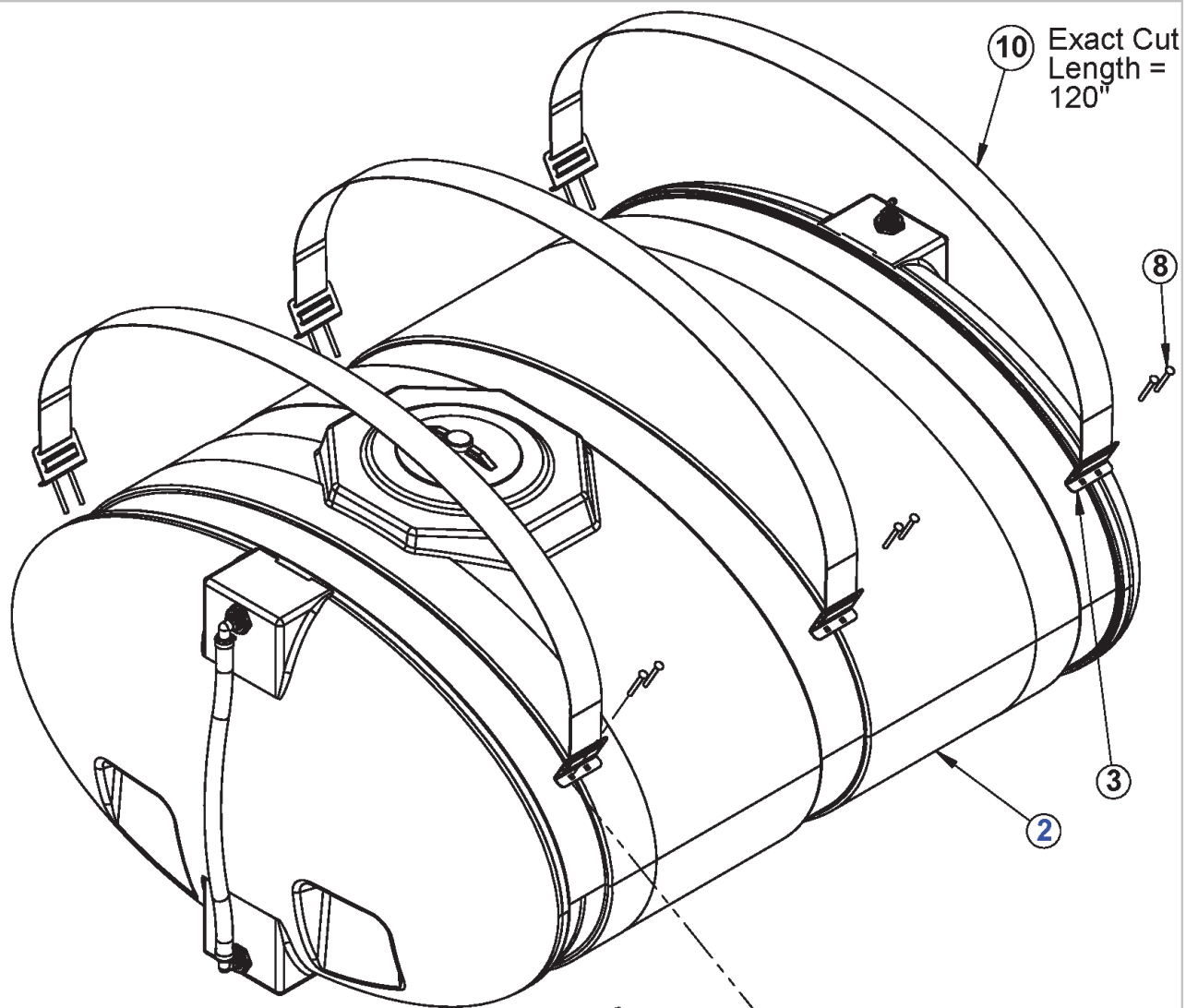
Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



TA01814 Option, 16R30 750 Gal Fert Sys

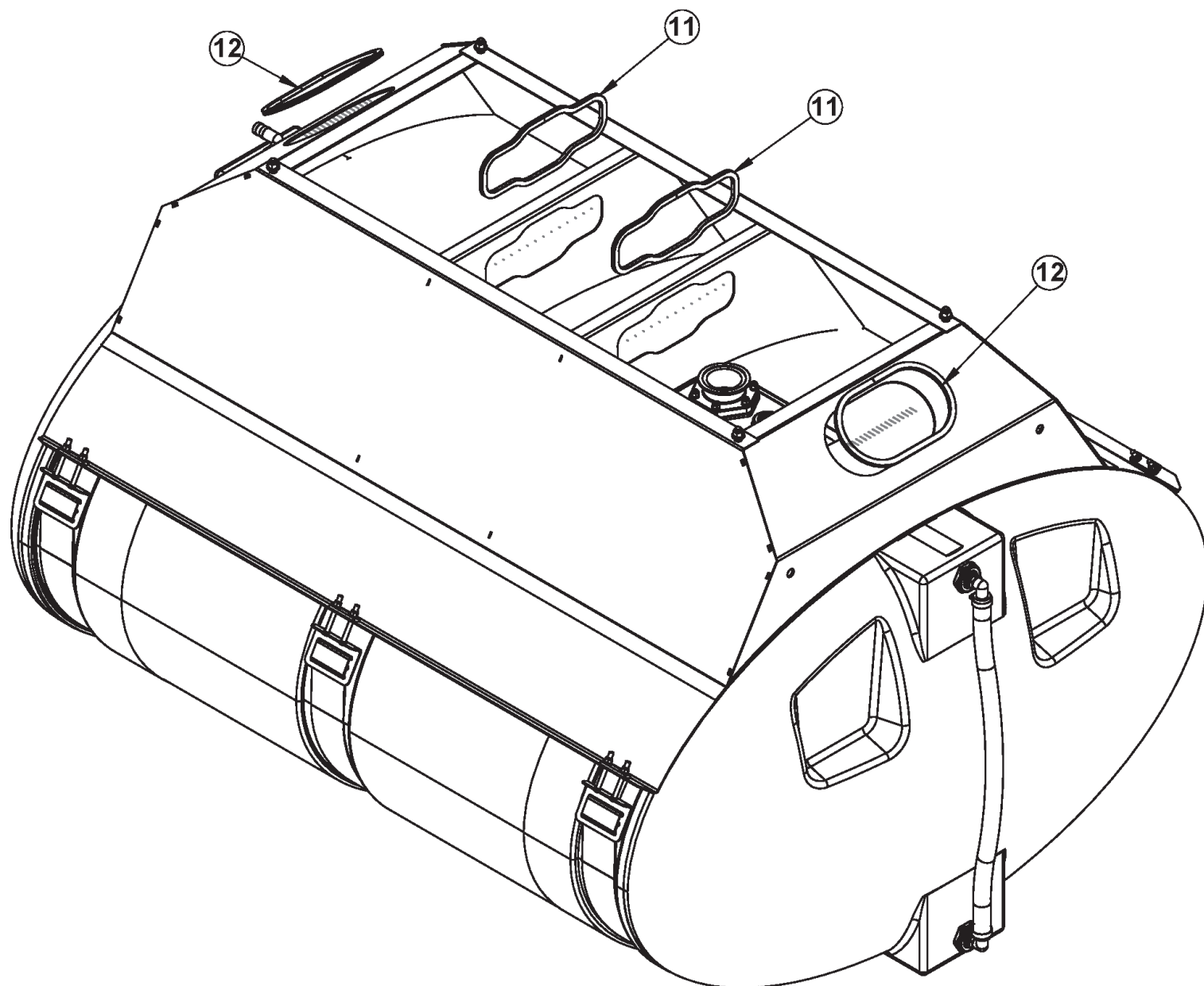
ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	2	
2	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	8	
3	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1-YZ8	1	
4	HB-0.500-13X1.75Y8	Bolt, Hex Hd 1/2-13x1-3/4 YZ8	4	
5	HCLMP-SAE-12SS	Hose Clamp, SAE #12-SS	8	
6	HCLMP-SAE-16SS	Clamp, Hose-SAE-#16-SS	1	
7	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	1	
8	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	4	
9	PCLMP-4.000x2.56	Clmp, Cus Pipe Ø4x2-9/16	1	
10	T0051512	3/4" MPT x 3/4" HB	1	
11	T0051637	Agitator, Tank	1	
12	T0051640	T-Bolt Clamp 2"	1	
13	T0051674	Hose, 0.38" Spray (per ft)	75	
14	T0051675	Hose, 0.75" Spray (per ft)	60	
15	T0051676	Hose, 1.50" Suction (per ft)	5	
16	T0051677	Hose, 2.00" Suction (per ft)	15	
17	T0051994	Hose, 0.25" Air Line (per ft)	150	
18	T0052304	Hose, 1.00" Spray (per ft)	1	
19	T0052428	Elbow, 3/4FPT X 3/4FPT	1	
20	T0052445	3/4" Hose Barb Wye	2	
21	T0052780	Hose, AgSpray 200 Ø3/4x30	1	
22	T0052781	Hose, AgSpray 200 Ø3/4x30	1	
23	T0053651	Brkt, Suction Tube	1	
24	T0055772	Tank Riser	2	
25	TA00693	Assy, Liquid Fert Mount	1	
26	TA01002	Assy, 750 Gal Tank and Base	1	
27	TA01847	Assy, Sump Fill 750 Elliptical	1	
28	TA01541	Assy, Rear Liq Fert Sight Gauge	1	
29	TA01670	Assy, Fert Pump/ Section Valves	1	

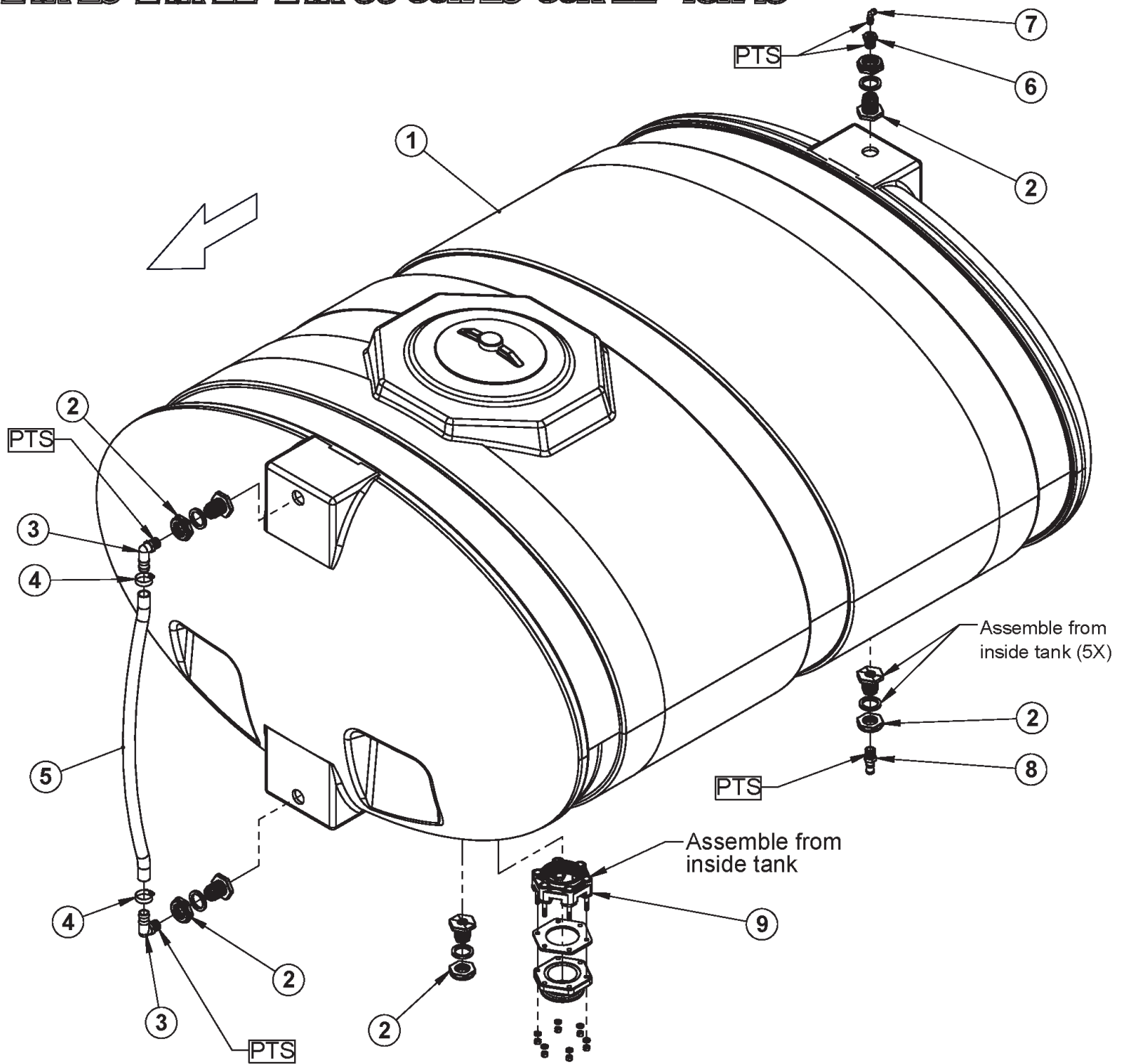


Webbing Routing Detail

TA01002 Assy, 750 Gal Tank and Base

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	TW000937	Tank Base, 750GA Fertilizer	1	
2	TA01004	Assy, Fert Tank 750 Gal	1	
3	T0053517	Brkt, Tank Strap	6	
4	FW-SAE-0.375Y	Washer, Flat SAE 3/8" YZ	12	
5	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	4	
6	FW-SAE-0.500Y	Washer, Flat SAE - 1/2-YZ	4	
7	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	4	
8	CB-0.375-16X4.00C5	Bolt, RHSN 3/8-16x4-CZ5	12	
9	NLNUT-0.375-16Y8	Nut, Nylock 3/8-16 YZ8	12	
10	T0055788	Strap, Nylon Tank 4" (per ft)	30	
11	T0053845	U-Trim, 3/16x17/32 (per ft)(34")	6	
12	T0053845	U-Trim, 3/16x17/32 (per ft)(30.4")	6	



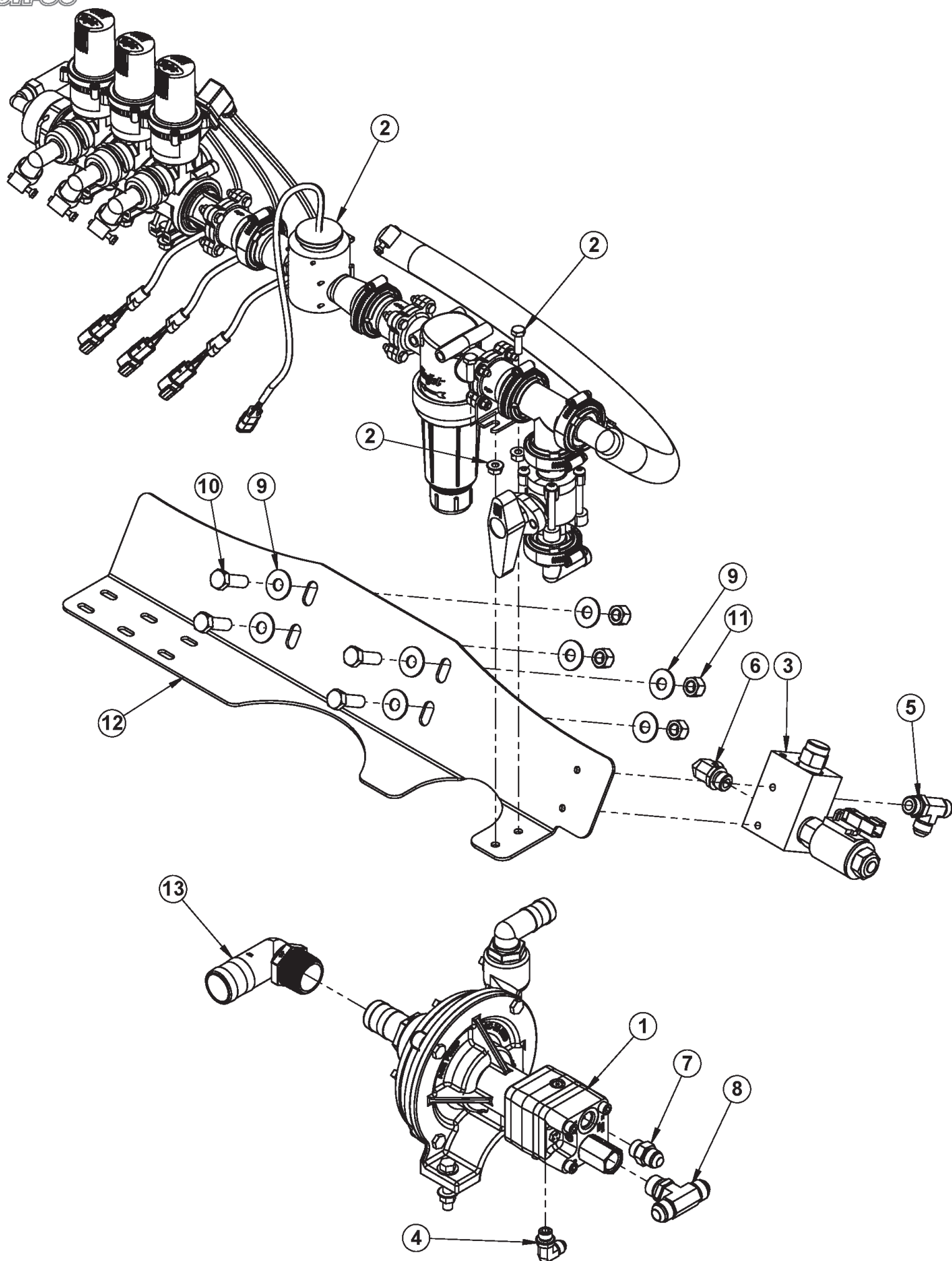


TA01004 Assy, Fert Tank 750 Gal

ITEM	PART NUMBER	Vendor PN	DESCRIPTION	QTY.
1	T0053327	ET750-GRAY	Tank, 750 GL Elliptical	1
2	T0051176	TF075	Ftng, 3/4" Bulkhead Tank	5
3	T0051179	HB075/100-90	.75" MPT to 1.00" Hose Barb-90	2
4	HCLMP-SAE-16SS	62012	Hose Clamp, SAE #16 SS	2
5	T0053360	SGH100	Sight Gauge Hose	1
6	T0055126	RB075-025	Fitting, Reducer Bushing 1/4 X 3/4 MPT	1
7	T0052453	0451579	Elbow 1/4" PTC to 1/4" MPT	1
8	T0051512	HB075	3/4" MPT x 3/4" HB	1
9	T0053678	MBF300BD	Tank Flg,3" Man Boltd-Bttm Drn	1

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.
3. **PTS**= Apply Pipe Thread Sealant, use Rectorseal #21 or equivalent.

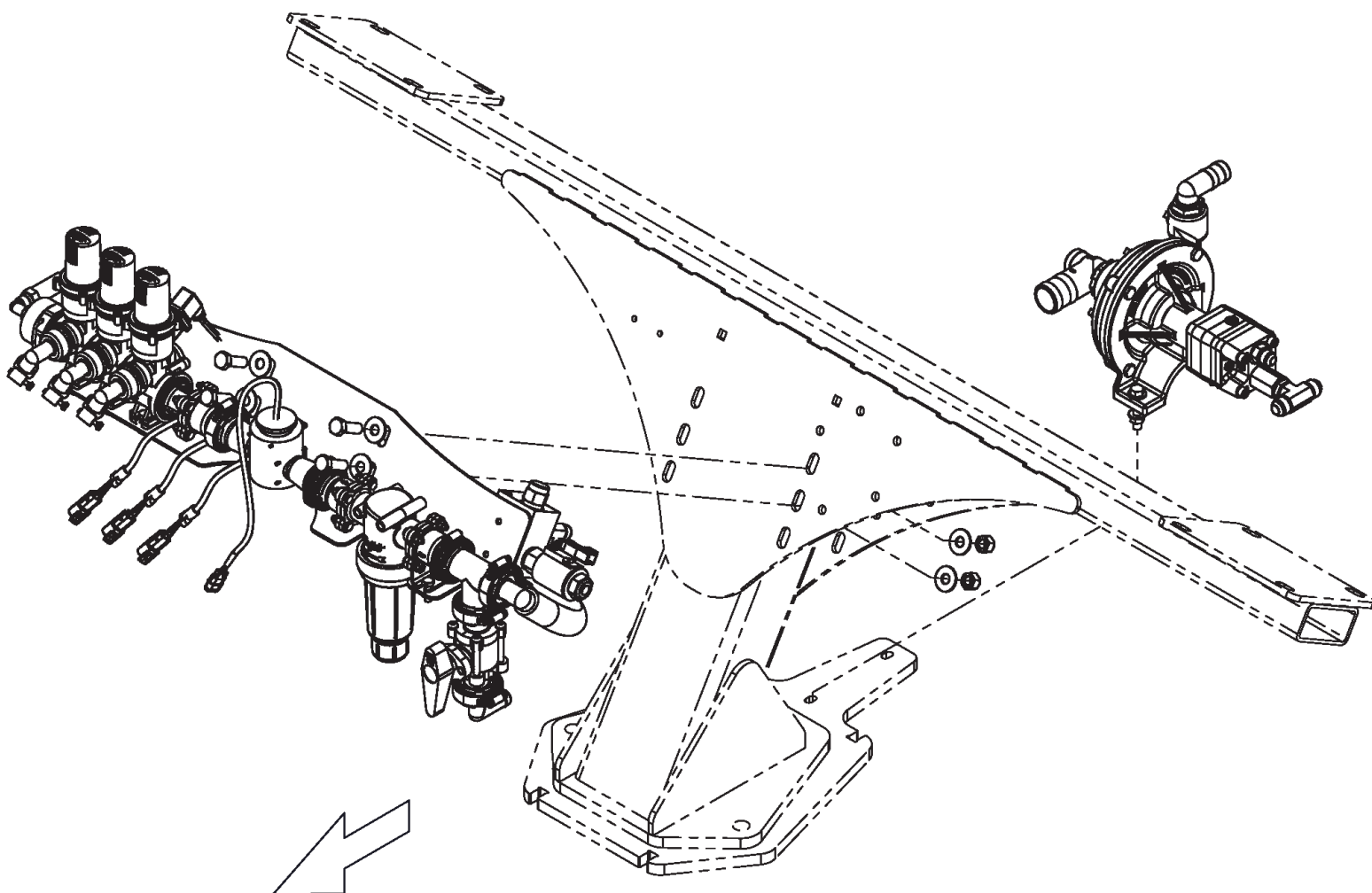


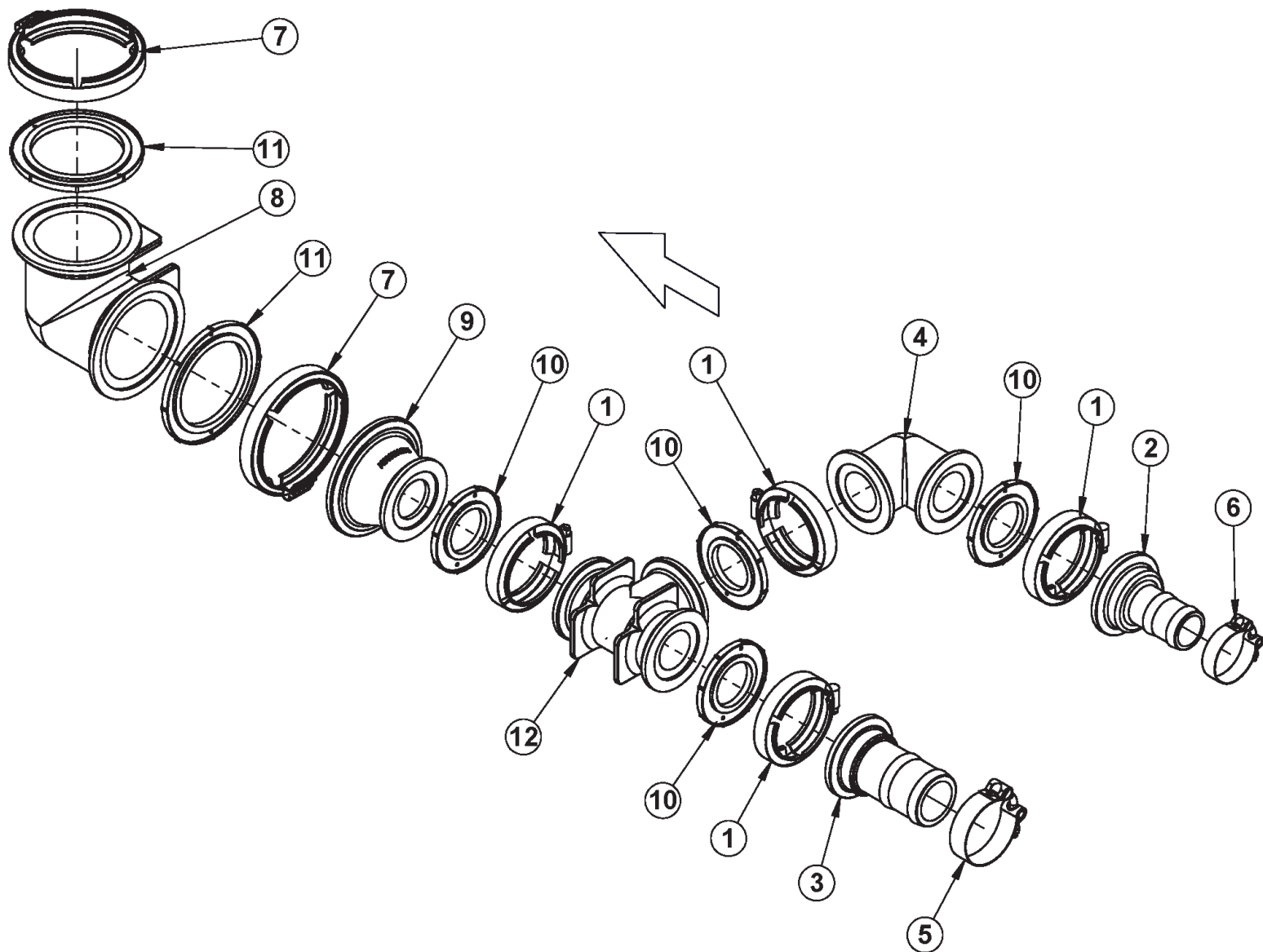
TA01670 Assy, Fert Pump/ Section Valves

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	47788249	Pump, Fertilizer w/Motor	1	
2	47788907	Assy, Fertilizer Manifold	1	
3	47898204	Valve, Fertilizer Control	1	
4	AD-06MJ-06MB-90	ADAPTER 06MJ-06MB 90	1	
5	AD-08MJ-08MB-08MJ	ADAPTER 08MJ-08MB-08MJ TEE	1	
6	AD-08MJ-08MB-90	ADAPTER 08MJ-08MB 90	1	
7	AD-08MJ-08MB	ADAPTER 08MJ-08MB	1	
8	AD-10MJ-10MJ-10MB	AD-10MJ-10MJ-10MB	1	
9	FW-USS-0.438Y	Washer, Flat-USS 7/16-YZ	8	
10	HB-0.500-13X1.50Y8	Bolt, Hex Hd 1/2-13x1-1/2 YZ8	4	
11	NLNUT-0.500-13Y8	Nut, Nylock 1/2-13 YZ8	4	
12	T0055372	Mount, Fertilizer Manifold	1	
13	T0055791	1-1/4 NPT x 1-1/2 x 90 Hose Barb	1	

Note:

1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.



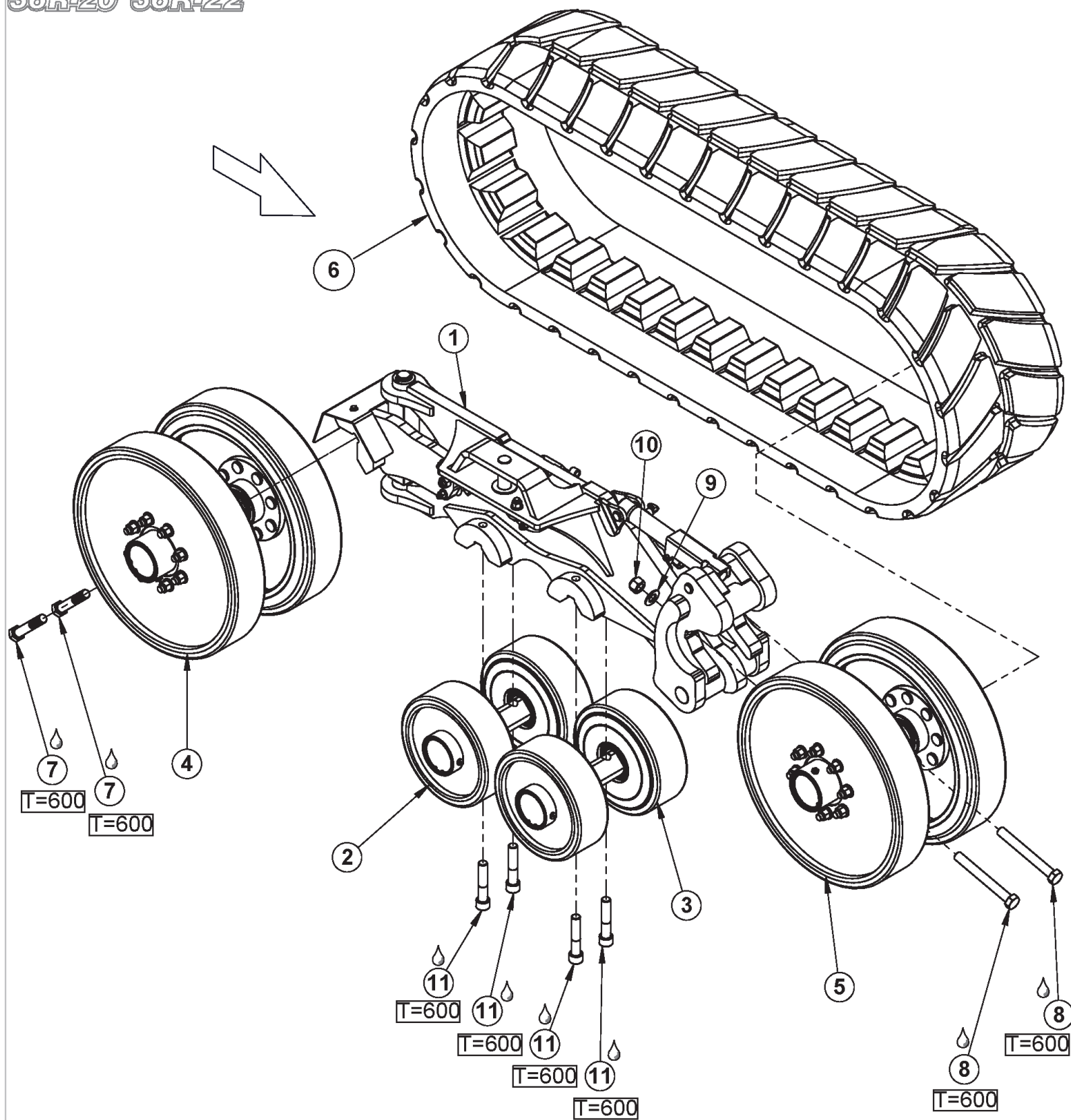


TA01847 Assy, Sump Fill 750 Elliptical

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	T0051560	Clamp 2" Flange	4	
2	T0051598	Fitting, 2" Flange x 1.5" HB	1	
3	T0051612	2" Flange x 2" HB	1	
4	T0051614	2" x 2" 90 deg Flange	1	
5	T0051639	T-Bolt Clamp 2.5"	1	
6	T0051640	T-Bolt Clamp 2"	1	
7	T0053408	Clamp, 3" Hi Torque	2	
8	T0053421	Coupling, 3" Manifold X 90 Deg	1	
9	T0053424	Ftng, M300 X M200 Coupling	1	
10	T0053630	Gasket, Univ Flanged 1.5" EPDM	4	
11	T0053635	Gasket, Univ Flanged 3.0" EPDM	2	
12	T0055110	Fitting, Manifold Tee, 2"	1	

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified).
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

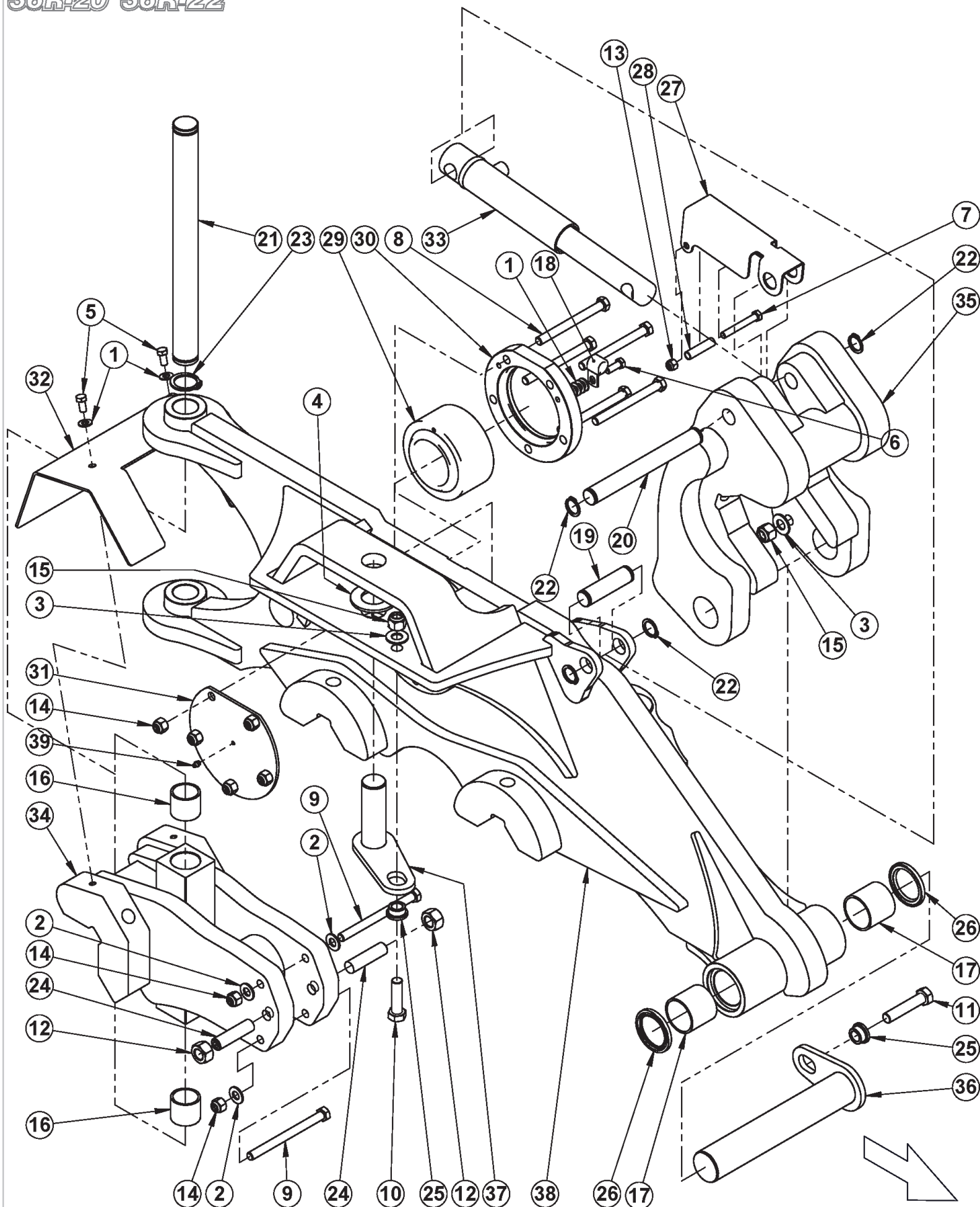


TA01230 Assy, 18" RH Track

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01049	Assy, RH Track Undercarriage	1	
2	TA01225	Roller Narrow Asm	1	
3	TA01225	Roller Narrow Asm	1	
4	TA01221	Idler Narrow Asm	1	
5	TA01221	Idler Narrow Asm	1	
6	T0054414	Track, 18" Wide Planter	1	
7	HB-1.000-8X5.50Y8	HBolt-1.0000-8x5.50-YZ8	2	
8	HB-1.000-8X8.50Y8	Bolt, Hex Head-1.0-8x8.5-YZ8	2	
9	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	2	
10	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
11	SHCS-1.000-8X5.00B8	SHCS-1.000-8X5.00 B8	4	

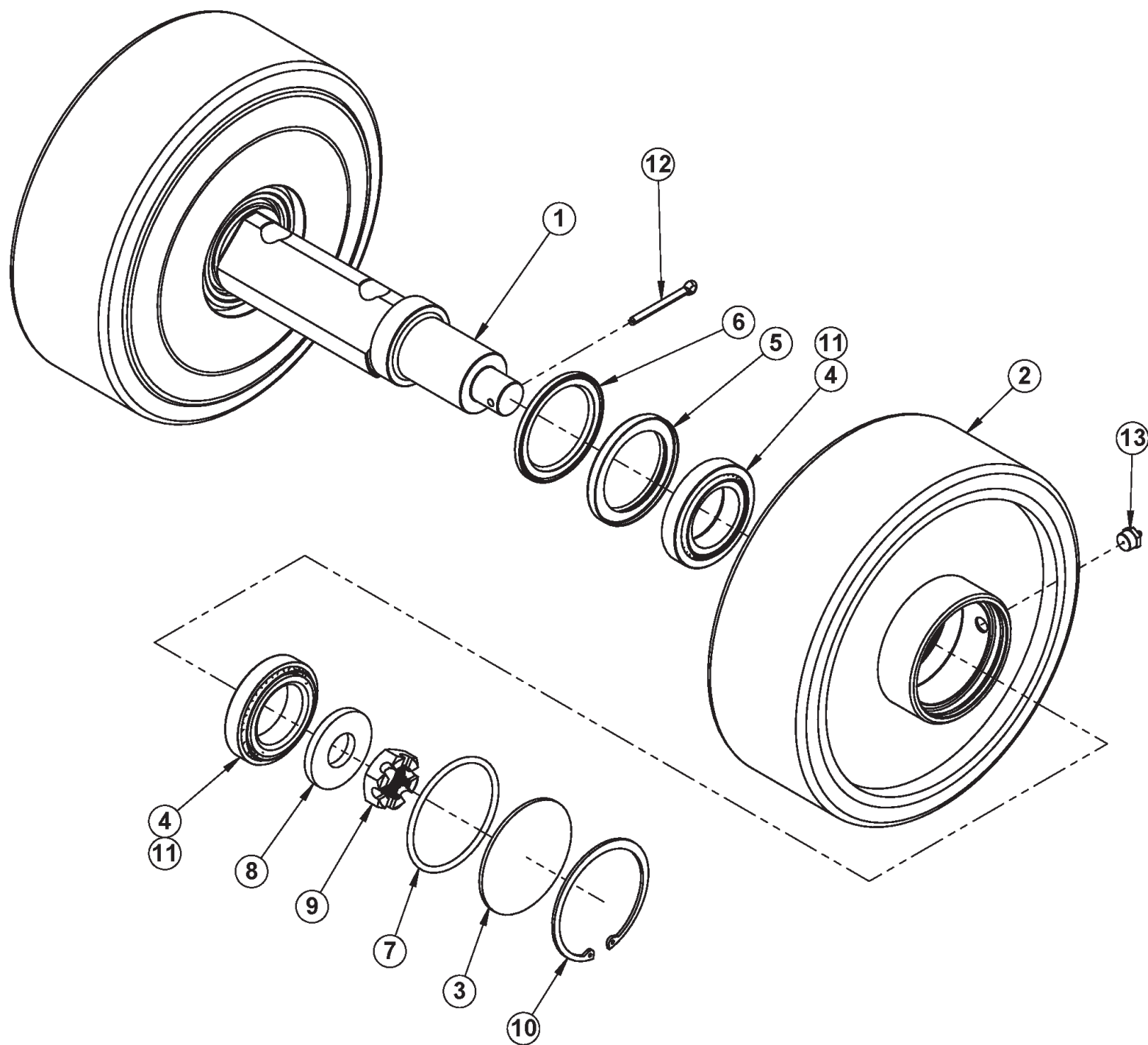
Note:

- 1. T=XXX = Torque, and is expressed in ft-lbs.
- 2.  = Apply 30W oil to the threads before assembly.



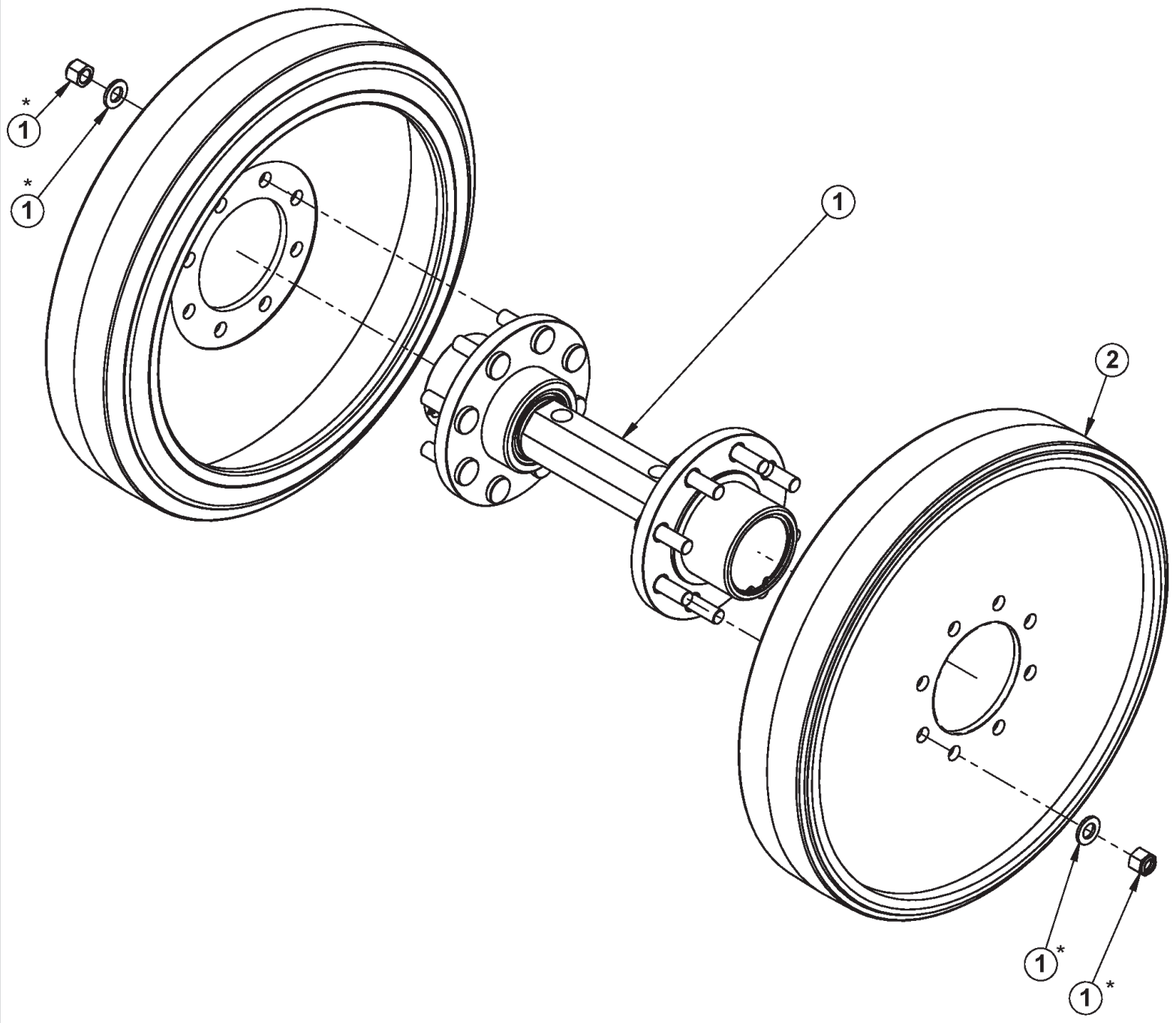
TA01049 Assy, RH Track Undercarriage

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	7	
2	FW-SAE-0.500Y	Washer, Flat SAE 1/2 YZ	4	
3	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	2	
4	FW-SAE-1.375Y	Washer, Flat SAE 1-3/8 YZ	1	
5	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
6	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	1	
7	HB-0.375-16X2.75Y8	Bolt, Hex Hd 3/8-16x2-3/4 YZ8	1	
8	HB-0.500-13X5.25Y8	Bolt, Hex Hd 1/2-13x5-1/4 YZ8	5	
9	HB-0.500-13X6.00Y8	Bolt, Hex Hd 1/2-13x6 YZ8	2	
10	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
11	HB-0.625-11X3.00Y8	Bolt, Hex Hd 5/8-18x3 YZ8	1	
12	HNUT-0.750-10Y8	Nut, Hex 3/4-10 YZ8	2	
13	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	1	
14	NLNUT-0.500-13Y8	Nylon Lock Nut, 1/2-13 YZ8	7	
15	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	2	
16	PB-1.500X1.75X1.50	Bushing, Composite 1-1/2x1-3/4x1-1/2	2	
17	PB-2.000X2.25X2.00	Bushing, Composite 2x2-1/4x2	2	
18	PCLMP-0.750x0.875	Clamp, Tube 3/4x13/32	1	
19	PIN-1.000X3.38Y	Pin, 1x3-3/8 YZ	1	
20	PIN-1.000X8.625Y	Pin, 1x8-5/8 YZ	1	
21	PIN-1.50X16.25Y	Pin, 1-1/2x16-1/4 YZ	1	
22	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	4	
23	SRING-EXT-HD-1.50Y	Retaining Ring, External 1-1/2 HD YZ	2	
24	SSOV-0.750-10X3.00B	Set Screw, Oval 3/4-10x3 BO	2	
25	T0050854	Anti Rotation Insert	2	
26	T0051585	2.00 Grease Seal	2	
27	T0053489	Shield, Tension Cylinder	1	
28	T0053497	Sleeve, Spacer	1	
29	T0053511	BEARING, SPHERICAL-3" SHAFT	1	
30	T0053524	Cap, Bearing	1	
31	T0054068	Grease Cap	1	
32	T0054437	Track Seal Cover	1	
33	TA01003	Cylinder, Hyd 1.50X5.50 SA	1	
34	TW000958	Wldmt (Mach), Track Alignment	1	
35	TW000962	Wldmt (Mach), Track Tensioner	1	
36	TW000963	Weld, Pin	1	
37	TW000964	Weld, Pin	1	
38	TW000982	Wldmt, RH Undercarriage-Mach	1	
39	ZERK-0.250-28	Zerk, 1/4-28	1	



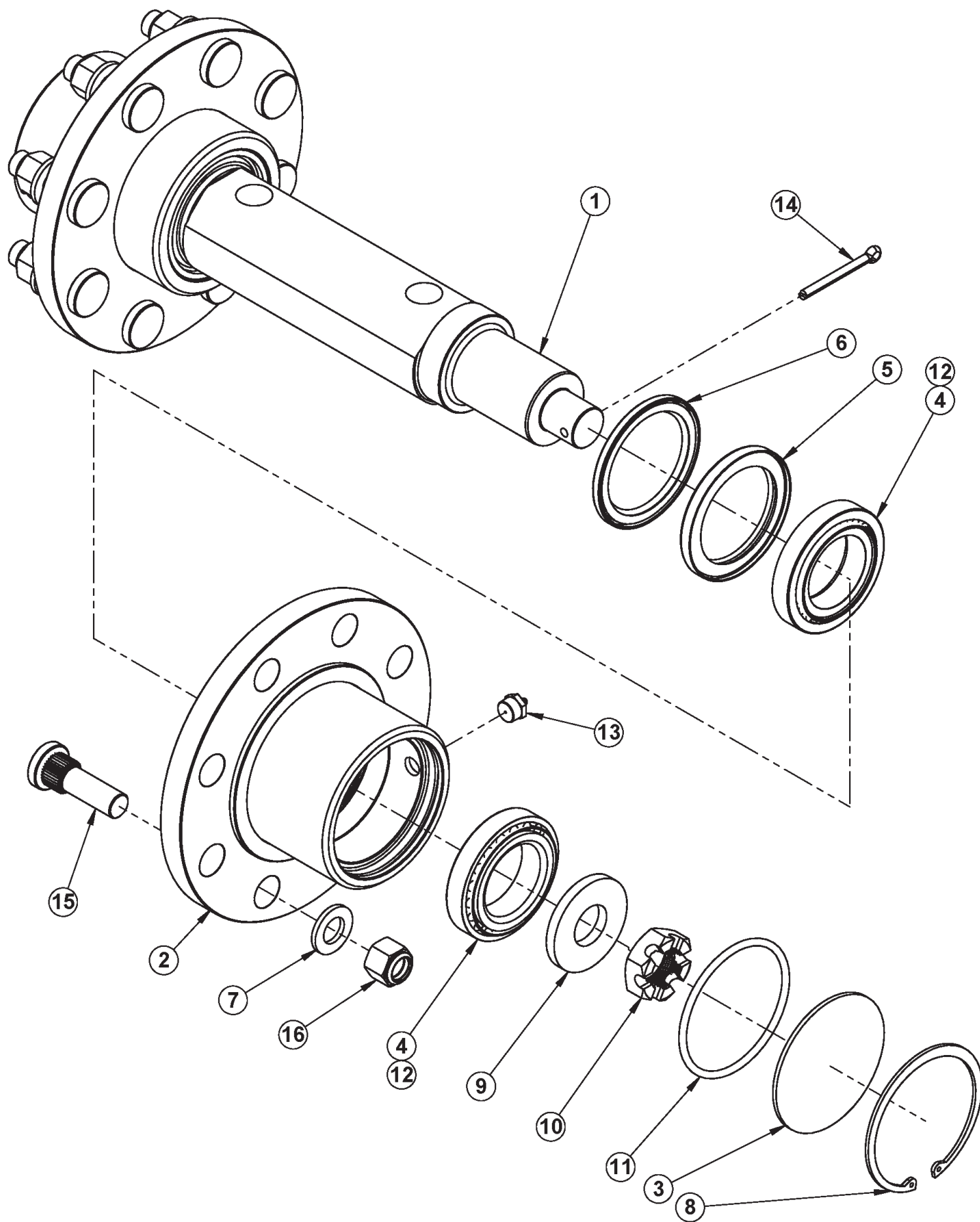
TA01225 Roller Narrow Asm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054431	Roller Axle	1	
2	TA01223	Roller Narrow Overmold	2	
3	T0054421	8-Bolt Hub Cap	2	
4	T0054432	Bearing Cup	4	
5	T0051029	3.0 Inch Seal	2	
6	T0051948	Seal, Radial Shaft Ø3.00 x .25	2	
7	ORING-4.250X.188	4-1/4" x 0.188" O-Ring	2	
8	HDWSH-1.26X2.88Y	1.25 x 2.87 x 0.31 Washer	2	
9	SHJN-1.250-12	Nut, Slotted Hex Jam 1-1/4"-12	2	
10	SRING-INT-4.25	4-1/4" INT SRING	2	
11	T0054433	2.25 Tapered Roller Bearing Cone	4	
12	CTPIN-0.250X2.50	COTTERPIN, 1/4 X 2-1/2	2	
13	ZERK-0.375-NPT	Zerk 0.375-NPT	2	



TA01221 Idler Narrow Asm				
ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01219	Idler Axle Asm	1	
2	TA01218	Idler Narrow Overmold	2	

Note:
*Items marked with an asterisk are items that are included in that particular part or assembly.

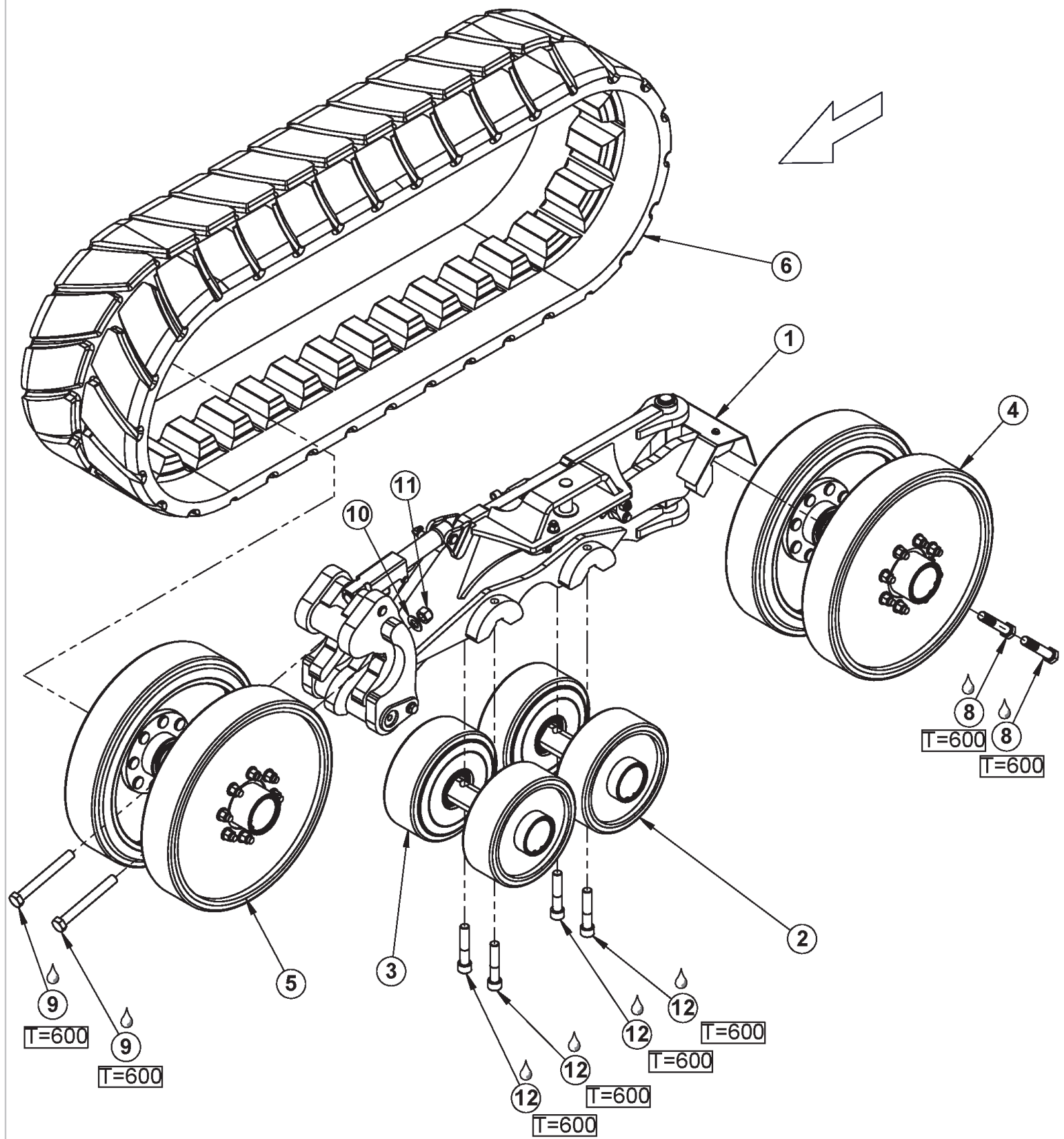


TA01219 Idler Axle Asm

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	T0054424	Idler Axle	1	
2	TW001134	8-Bolt Hub Machined	2	
3	T0054421	8-Bolt Hub Cap	2	
4	T0054432	Bearing Cup	4	
5	T0051029	3.0 Inch Seal	2	
6	T0051948	Seal, Radial Shaft Ø3.00 x .25	2	
7	FW-SAE-0.750YTH	Washer, FL SAE 3/4 Th-Hrd YZ	16	
8	SRING-INT-4.25	4-1/4" INT SRING	2	
9	HDWSH-1.26X2.88Y	1.25 x 2.87 x 0.31 Washer	2	
10	SHJN-1.250-12	Nut, Slotted Hex Jam 1-1/4"-12	2	
11	ORING-4.250X.188	4-1/4" x 0.188" O-Ring	2	
12	T0054433	2.25 Tapered Roller Bearing Cone	4	
13	ZERK-0.375-NPT	Zerk 0.375-NPT	2	
14	CTPIN-0.250X2.50	COTTERPIN, 1/4 X 2-1/2	2	
15	WS-0.750-16X2.625C5	Stud, Wheel 3/4-16 Gr5 CZ	16	
16	NLNUT-0.750-16Y8	Nut, Nylock-3/4-16-YZ8	16	

Note:

*Items marked with an asterisk are items that are included in that particular part or assembly.

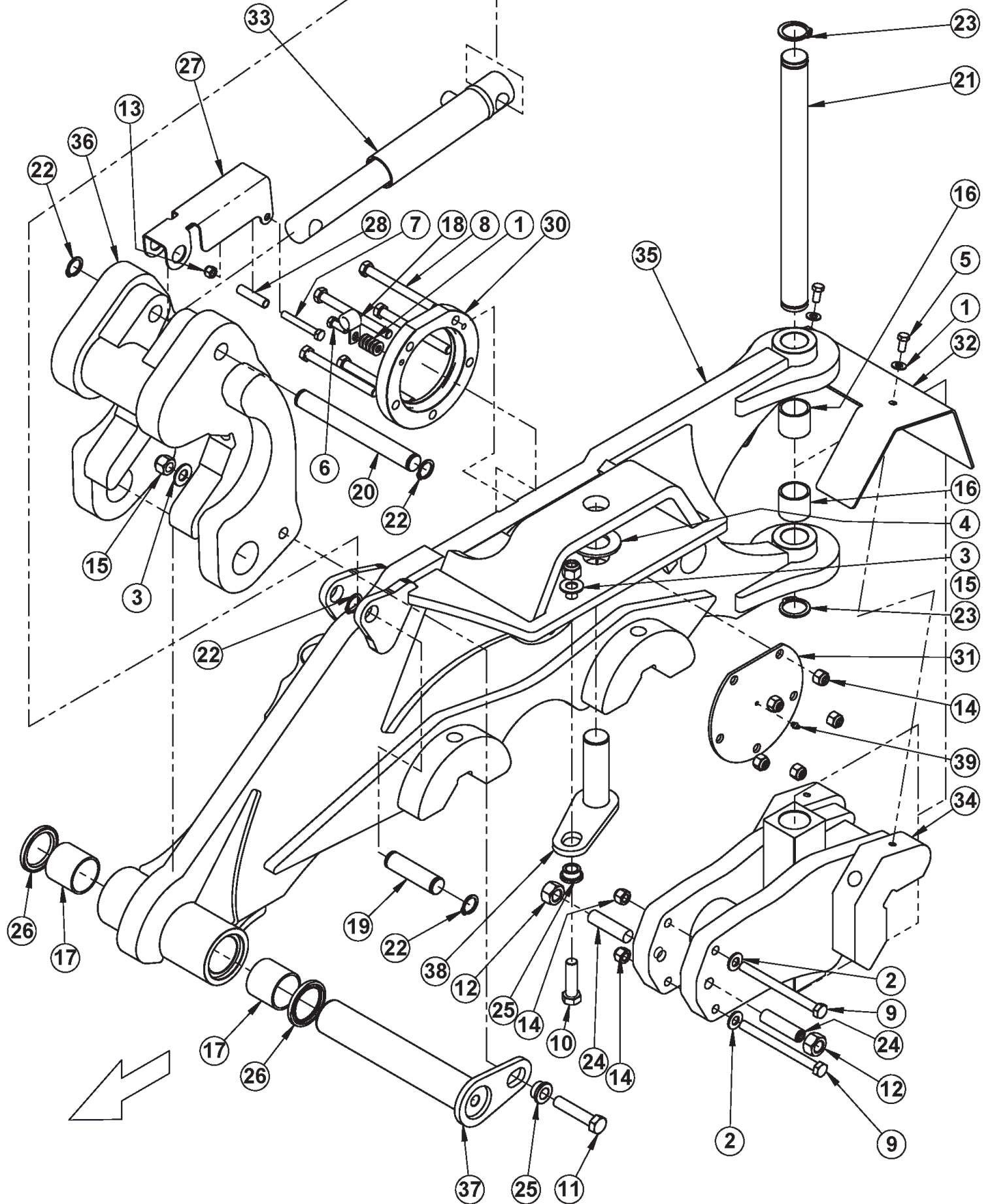


TA01231 Assy, 18" LH Track

ITEM	PART NUMBER	DESCRIPTION	QTY	TORQUE (ft-lbs)
1	TA01024	Assy, LH Track Undercarriage	1	
2	TA01225	Roller Narrow Asm	1	
3	TA01225	Roller Narrow Asm	1	
4	TA01221	Idler Narrow Asm	1	
5	TA01221	Idler Narrow Asm	1	
6	T0054414	Track, 18" Wide Planter	1	
7	T0053511	BEARING, SPHERICAL-3" SHAFT	1	
8	HB-1.000-8X5.50Y8	HBolt-1.0000-8x5.50-YZ8	2	600
9	HB-1.000-8X8.50Y8	Bolt, Hex Head-1.0-8x8.5-YZ8	2	600
10	FW-SAE-1.000Y	Washer, Flat SAE-1.0-YZ	2	
11	NLNUT-1.000-8Y8	Nut, Nylock-1.0-8-YZ8	2	
12	SHCS-1.000-8X5.00B8	SHCS-1.000-8X5.00 B8	4	600

Note:

1.  = Torque, and is expressed in ft-lbs.
2.  = Apply 30W oil to the threads before assembly.



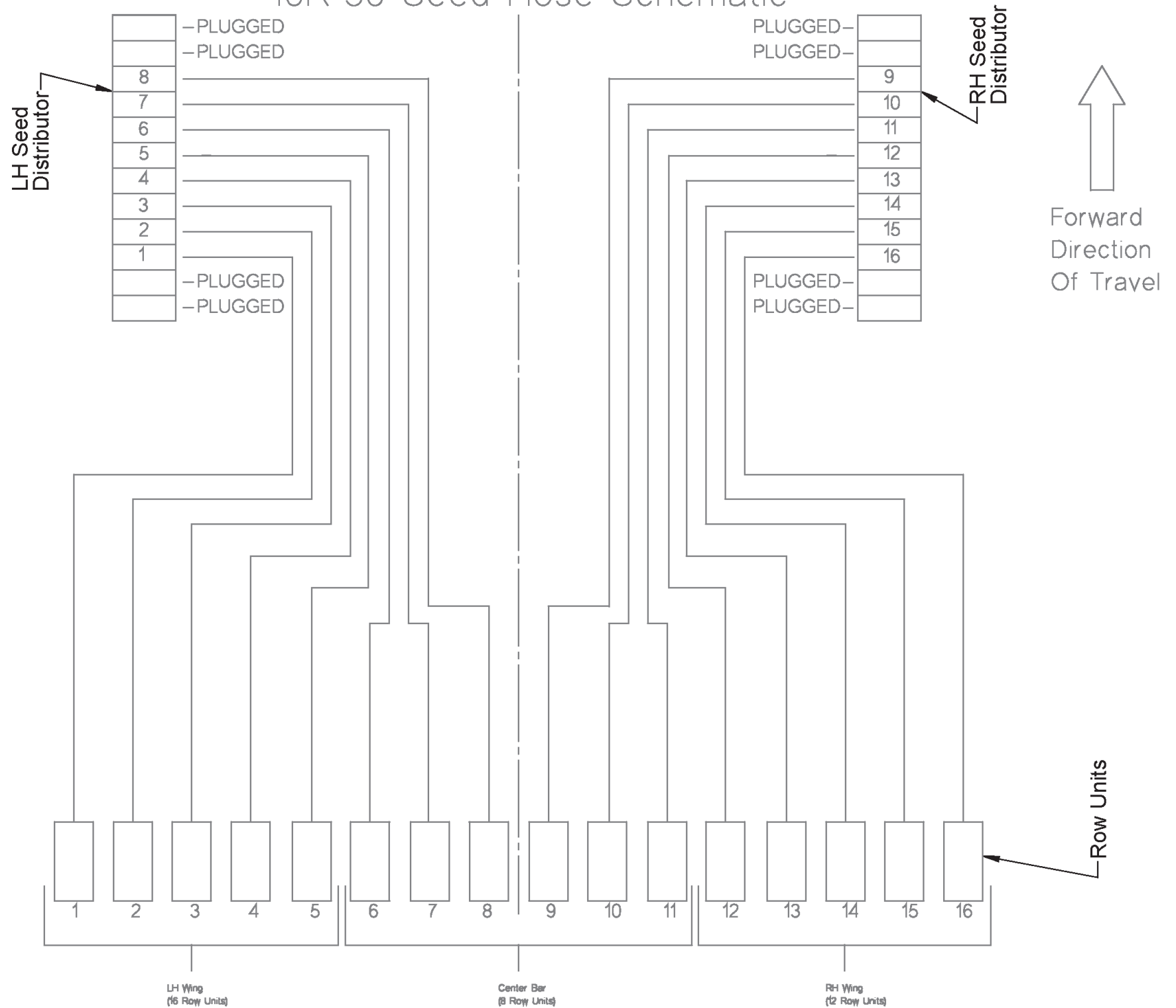
TA01024 Assy, LH Track Undercarriage

ITEM	PART NUMBER	DESCRIPTION	QTY.	TORQUE (ft-lbs)
1	FW-SAE-0.375Y	Washer, Flat SAE 3/8 YZ	7	
2	FW-SAE-0.500Y	Washer, Flat SAE 1/2 YZ	4	
3	FW-SAE-0.625Y	Washer, Flat SAE 5/8 YZ	2	
4	FW-SAE-1.375Y	Washer, Flat SAE 1-3/8 YZ	1	
5	HB-0.375-16X0.75Y8	HBolt-0.3750-16x0.750-YZ8	2	
6	HB-0.375-16X1.00Y8	Bolt, Hex Hd 3/8-16x1 YZ8	1	
7	HB-0.375-16X2.75Y8	Bolt, Hex Hd 3/8-16x2-3/4 YZ8	1	
8	HB-0.500-13X5.25Y8	Bolt, Hex Hd 1/2-13x5-1/4 YZ8	5	
9	HB-0.500-13X6.00Y8	Bolt, Hex Hd 1/2-13x6 YZ8	2	
10	HB-0.625-11X2.25Y8	Bolt, Hex Hd 5/8-11x2-1/4 YZ8	1	
11	HB-0.625-11X3.00Y8	Bolt, Hex Hd 5/8-18x3 YZ8	1	
12	HNUT-0.750-10Y8	Nut, Hex 3/4-10 YZ8	2	
13	NLNUT-0.375-16Y8	Nylon Lock Nut, 3/8-16 YZ8	1	
14	NLNUT-0.500-13Y8	Nylon Lock Nut, 1/2-13 YZ8	7	
15	NLNUT-0.625-11Y8	Nylon Lock Nut, 5/8-11 YZ8	2	
16	PB-1.500X1.75X1.50	Bushing, Composite 1-1/2x1-3/4x1-1/2	2	
17	PB-2.000X2.25X2.00	Bushing, Composite 2x2-1/4x2	2	
18	PCLMP-0.750x0.875	Clamp, Tube 3/4x13/32	1	
19	PIN-1.000X3.38Y	Pin, 1x3-3/8 YZ	1	
20	PIN-1.000X8.625Y	Pin, 1x8-5/8 YZ	1	
21	PIN-1.50X16.25Y	Pin, 1-1/2x16-1/4 YZ	1	
22	SRING-EXT-HD-1.00Y	Retaining Ring, External 1 HD YZ	4	
23	SRING-EXT-HD-1.50Y	Retaining Ring, External 1-1/2 HD YZ	2	
24	SSOV-0.750-10X3.00B	Set Screw, Oval 3/4-10x3 BO	2	
25	T0050854	Anti Rotation Insert	2	
26	T0051585	2.00 Grease Seal	2	
27	T0053489	Shield, Tension Cylinder	1	
28	T0053497	Sleeve, Spacer	1	
29	T0053511	BEARING, SPHERICAL-3" SHAFT	1	
30	T0053524	Cap, Bearing	1	
31	T0054068	Grease Cap	1	
32	T0054437	Track Seal Cover	1	
33	TA01003	Cylinder, Hyd 1.50X5.50 SA	1	
34	TW000958	Wldmt (Mach), Track Alignment	1	
35	TW000960	Wldmt, LH Undercarriage-Mach	1	
36	TW000962	Wldmt (Mach), Track Tensioner	1	
37	TW000963	Weld, Pin	1	
38	TW000964	Weld, Pin	1	
39	ZERK-0.250-28	Zerk, 1/4-28	1	

Note:

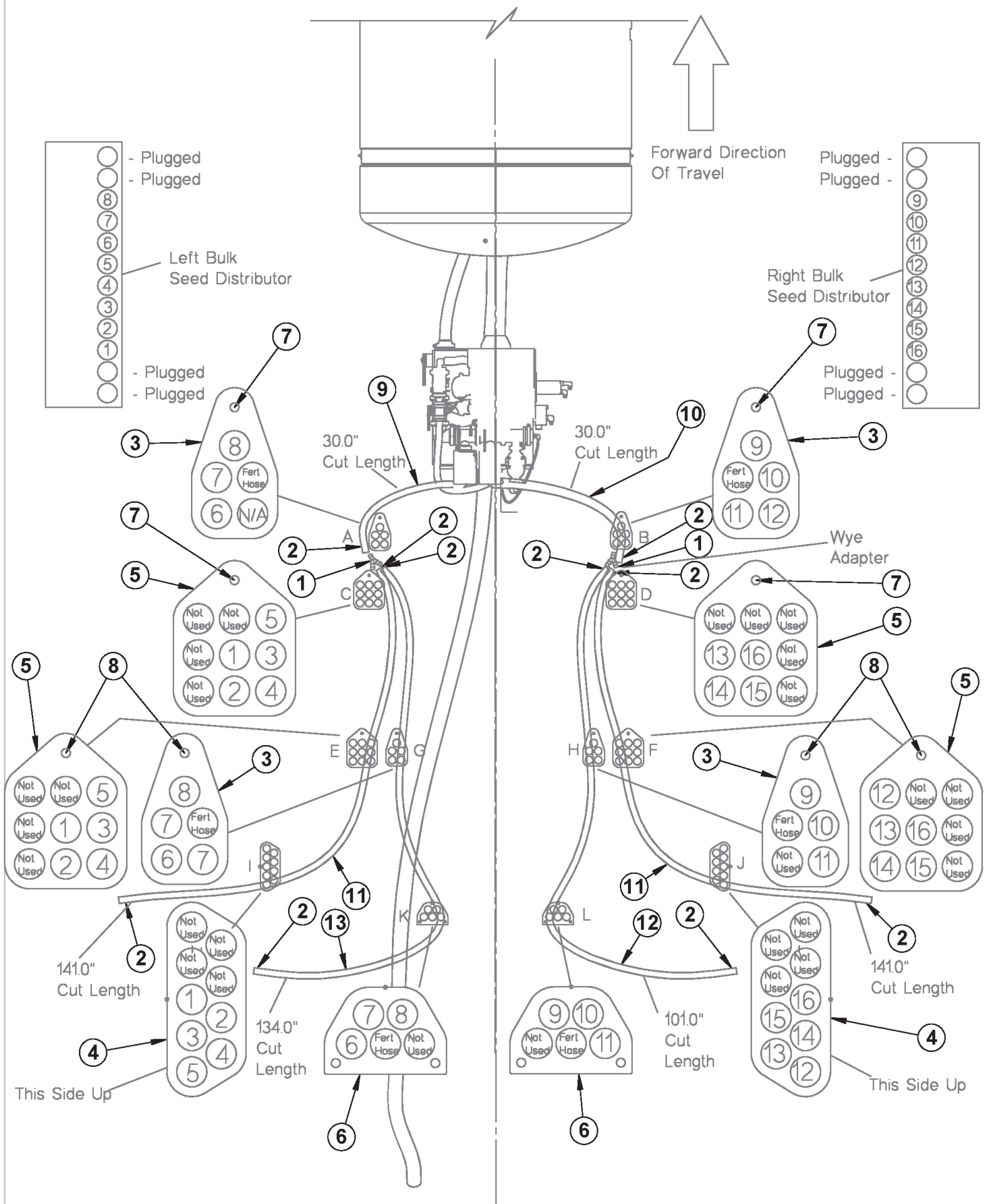
1. [T=XXX] = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.)
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

16R-30 Seed Hose Schematic



1. Items 1-24 use bulk part number T0051672 Hose-1.00" PVC (100' Roll), or CNH P/N 87483976

Row	1" Hose	1" Hose
1	336	28' 0"
2	300	25' 0"
3	282	23' 6"
4	252	21' 0"
5	234	19' 6"
6	228	19' 0"
7	204	17' 0"
8	180	15' 0"
9	180	15' 0"
10	204	17' 0"
11	228	19' 0"
12	234	19' 6"
13	252	21' 0"
14	282	23' 6"
15	300	25' 0"
16	336	28' 0"
Total	4032	336' 0"



T0055819 Schematic, Seed Hose Routing Thru Hangers 16R30

Row Unit #	PART NUMBER	Lengths	QTY.
1	T0052445	3/4" Hose Barb Wye	1
2	HClamp-SAE-12-SS	Hose Clamp, SAE #12-SS	12
3	T0052573	Seed Hose Hanger, Middle Fr	4
4	T0052571	Seed Hose Hanger, Stub Arm	2
5	T0052572	Seed Hose Hanger, Middle	4
6	T0052450	Guide, Hose Seed Tube Cen Fr	2
7	T0052569	J-Hanger, Double	4
8	T0052570	J Hanger, Double Straight	2
9	T0052781	Hose, AgSpray 200 Ø3/4x30	1
10	T0052780	Hose, AgSpray 200 Ø3/4x30	1
11	T0052782	Hose, AgSpray 200 Ø3/4x141	2
12	T0052783	Hose, AgSpray 200 Ø3/4x101	1
13	T0052784	Hose, AgSpray 200 Ø3/4x134	1

Note:

1. **T=XXX** = Torque Expressed in ft-lbs (Use standard torque values from drawing T0000000 unless otherwise specified.
2. * Items marked with an asterisk are items that are included in that particular part or assembly.

Torque – Hydraulic tubes and fittings

Standard torque data for hydraulic tubes and fittings

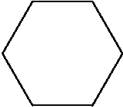
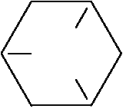
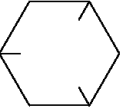
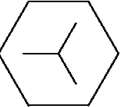
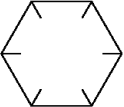
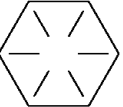
Tube Nuts for 37° Flared Fittings								O-Ring Boss Plugs, Adjustable Fitting Lock Nuts, Swivel JIC - 37 ° Seats			
Size	Tubing OD		Thread Size	ft-lbs		Nm		ft-lbs		Nm	
	Inches	mm		Min	Max	Min	Max	Min	Max	Min	Max
4	1/4	6.4	7/16-20	9	12	12	16	6	10	8	14
5	5/16	7.9	1/2-20	12	15	16	20	10	15	14	20
6	3/8	9.5	9/16-18	21	24	29	33	15	20	20	27
8	1/2	12.7	3/4-18	35	40	47	54	25	30	34	41
10	5/8	15.9	7/8-14	53	58	72	79	35	40	47	54
12	3/4	19.1	1-1/6-12	77	82	104	111	60	70	81	95
14	7/8	22.2	1-3/16-12	90	100	122	136	70	80	95	109
16	1	25.4	1-5/16-12	110	120	149	163	80	90	108	122
20	1-1/4	31.8	1-5/8-12	140	150	190	204	95	115	129	156
24	1-1/2	38.1	1-7/8-12	160	175	217	237	120	140	163	190
32	2	50.8	2-1/2-12	225	240	305	325	250	300	339	407

The above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installations and swivel nuts either swagged or brazed. These torques are not recommended for tubes 12.7 mm (0.5 in) OD and thicker with wall thickness of 0.889 mm (0.035 in) or less. The torque is specified for 0.889 mm (0.035 in) wall tubes on each application individually.

Torque – Fasteners

Society of Automotive Engineers (SAE) Fastener Torque

Use these torques, unless special torques are specified. Values are for Unified Coarse (UNC) and Unified Fine (UNF) thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, molydisulphide or other extreme pressure lubricant is used.

SAE Grade No.	Grade 2				Grade 5				Grade 8 (See Note below.)			
Bolt Head Identification (See Note below.)					  				  			
Bolt Size	ft-lbs		Nm		ft-lbs		Nm		ft-lbs		Nm	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	87	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	976
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8					800	880	1085	1193	1280	1440	1736	1953
1-1/4					1120	1240	1519	1681	1820	2000	2468	2712
1-3/8					1460	1680	1980	2278	2380	2720	3227	3688
1-1/2					1940	2200	2631	2983	3160	3560	4285	4827

Notes: Bolt head identification marks as per grade. Manufacturing marks will vary.

Thick nuts must be used with Grade 8 bolts.

Metric International Standards Organization (ISO) Fastener Torque

Use these torques, unless special torques are specified. Values are for coarse thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, molydisulphide or other extreme pressure lubricant is used.

ISO Class No.	8.8				10.9				12.9			
Bolt Head Identification (See Note below.)												
Bolt Size	ft-lbs		Nm		ft-lbs		Nm		ft-lbs		Nm	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M4	2	3	3	4	3	4	4	5	Because of the low ductility of these fasteners, the torque range is to be determined individually for each application. As a general rule, the torque ranges specified for Grade 10.9 fasteners can be used satisfactorily on 12.9 fasteners.			
M5	5	6	7	8	7	8.0	10	11				
M6	8	9	11	12	11	13	15	18				
M8	19	23	26	31	27	32	37	43				
M10	38	45	52	61	54	64	73	87				
M12	66	79	90	107	93	112	125	150				
M14	106	127	144	172	149	179	200	245				
M16	160	200	217	271	230	280	310	380				
M20	320	380	434	515	450	540	610	730				
M24	500	600	675	815	780	940	1050	1275				
M30	920	1100	1250	1500	1470	1770	2000	2400				
M36	1600	1950	2175	2600	2580	3090	3500	4200				

Notes: Bolt head identification marks as per grade. Manufacturing marks will vary.

CONVERSION CHART											
Inch Fractions and Decimals to Millimeter Equivalents											
Inches		MM	Inches		MM	Inches		MM	Inches		MM
Fraction	Decimal		Fraction	Decimal		Fraction	Decimal		Fraction	Decimal	
-	0.0004	0.01	-	0.3	7.62	-	0.7874	20	-	1.969	50
-	0.001	0.025	5/16	0.3125	7.938	51/64	0.7969	20.241	2	2	50.8
-	0.0039	0.1	-	0.315	8	13/16	0.8125	20.638	2-1/8	2.125	54
-	0.005	0.127	21/64	0.3281	8.334	-	0.8268	21	-	2.165	55
-	0.0079	0.2	-	0.3346	8.5	53/64	0.8281	21.034	2-1/4	2.25	57.2
-	0.0098	0.25	11/32	0.3438	8.731	27/32	0.8438	21.431	-	2.362	60
-	0.01	0.254	-	0.3543	9	55/64	0.8594	21.828	2-3/8	2.375	60.3
-	0.0118	0.3	23/64	0.3594	9.128	-	0.8662	22	2-1/2	2.5	63.5
1/64	0.0156	0.397	-	0.374	9.5	7/8	0.875	22.225	-	2.559	65
-	0.0157	0.4	3/8	0.375	9.525	57/64	0.8906	22.622	2-5/8	2.625	66.7
-	0.0197	0.5	25/64	0.3906	9.922	-	0.9	22.86	2-3/4	2.75	69.9
-	0.0236	0.6	-	0.3937	10	-	0.9055	23	-	2.756	70
-	0.025	0.635	-	4	10.16	29/32	0.9063	23.019	2-7/8	2.875	73
-	0.0276	0.7	13/32	0.4062	10.319	59/64	0.9219	23.416	-	2.953	75
-	0.0295	0.75	-	0.4134	10.5	15/16	0.9375	23.813	3	3	76.2
1/32	0.0313	0.794	27/64	0.4219	10.716	-	0.9449	24	-	3.15	80
-	0.0315	0.8	-	0.4331	11	61/64	0.9531	24.209	3-1/4	3.25	82.6
-	0.0354	0.9	7/16	0.4375	11.113	31/32	0.9688	24.606	-	3.346	85
-	0.0394	1	29/64	0.4531	11.509	-	0.9843	25	3-1/2	3.5	88.9
3/64	0.0469	1.191	15/32	0.4688	11.906	1	1	25.4	-	3.543	90
-	0.0472	1.2	-	0.4724	12	-	1.024	26	-	3.74	95
-	0.05	1.27	31/64	0.4844	12.303	1-1/16	1.062	26.988	3-3/4	3.75	95.3
-	0.0551	1.4	-	0.4921	12.5	-	1.063	27	-	3.937	100
-	0.0591	1.5	1/2	0.5	12.7	-	1.102	28	4	4	101.6
1/16	0.0625	1.588	-	0.5118	13	1-1/8	1.125	28.575	-	4.331	110
-	0.0669	1.7	33/64	0.5156	13.097	-	1.142	29	4-1/2	4.5	114.3
-	0.075	1.905	17/32	0.5326	13.494	-	1.181	30	-	4.724	120
5/64	0.0781	1.984	-	0.5315	13.5	1-3/16	1.188	30.16	5	5	127
-	0.0787	2	35/64	0.5469	13.891	-	1.221	31	-	5.118	130
-	0.0906	2.3	-	0.5512	14	1-1/4	1.25	31.75	5-1/2	5.5	139.7
3/32	0.0938	2.381	9/16	0.5625	14.288	-	1.26	32	-	5.512	140
-	0.0984	2.5	-	0.571	14.5	-	1.299	33	-	5.906	150
-	0.1	2.54	37/64	0.5781	14.684	1-5/16	1.312	33.34	6	6	152.4
-	0.1024	2.6	-	0.5906	15	-	1.339	34	-	6.299	160
7/64	0.1093	2.776	19/32	0.5938	15.081	1-3/8	1.375	34.93	6-1/2	6.5	165.1
-	0.1181	3	-	0.6	15.24	-	1.378	35	7	7	177.8
1/8	0.125	3.175	39/64	0.6094	15.478	-	1.417	36	-	7.087	180
-	0.1378	3.5	-	0.6103	15.5	1-7/16	1.438	36.51	7-1/2	7.5	190.5
9/64	0.1406	3.572	5/8	0.625	15.875	-	1.457	37	-	7.874	200
5/32	0.1563	3.969	-	0.6299	16	-	1.496	38	8	8	203.2
-	0.1575	4	41/64	0.6406	16.272	1-1/2	1.5	38.1	8-1/2	8.5	215.9
11/64	0.1719	4.366	-	0.6496	16.5	-	1.535	39	-	8.661	220
-	0.1772	4.5	21/32	0.6563	16.669	1-9/16	1.562	39.69	9	9	228.6
3/16	0.1875	4.763	-	0.6693	17	-	1.575	40	-	9.449	240
-	0.1969	5	43/64	0.6719	17.066	-	1.614	41	9-1/2	9.5	241.3
-	0.2	5.08	11/16	0.6875	17.463	1-5/8	1.625	41.28	-	9.843	250
13/64	0.2031	5.159	-	0.689	17.5	-	1.654	42	10	10	254
-	0.2165	5.5	-	0.7	17.78	1-11/16	1.688	42.86	-	10.236	260
7/32	0.2188	5.556	45/64	0.7031	17.859	-	1.693	43	11	11	279.4
15/64	0.2344	5.963	-	0.7087	18	-	1.732	44	-	11.024	280
-	0.2362	6	23/32	0.7188	18.256	1-3/4	1.75	44.45	-	11.811	300
1/4	0.25	6.35	-	0.7283	18.5	-	1.772	45	12	12	304.8
-	0.2559	6.5	47/64	0.7344	18.653	-	1.811	46	13	13	330.2
17/64	0.2656	6.747	-	0.748	19	1-13/16	1.813	46.04	-	13.78	350
-	0.2756	7	3/4	0.75	19.05	-	1.85	47	14	14	355.6
9/32	0.2813	7.144	49/64	0.7656	19.447	1-7/8	1.875	47.63	15	15	381
-	0.2953	7.5	-	0.7677	19.5	-	1.89	48	-	15.748	400
19/64	0.2969	7.541	25/32	0.7813	19.844	-	1.929	49	16	16	406.4

